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INVESTIGATION OF AIRCRAFT COMBUSTOR NOISE

W. R. Semrau, et al

General Motors Corporation

Prepared for:

Army Air Mobility Research and Development Laboratory

September 1974

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This report describes the results of an investigation to determine the feasibility of correlating combustor noise emission levels and combustor efficiency. Although an adequate correlation and combustor noise prediction model was not developed, the effort helped to increase the level of understanding of the mechanics of combustor noise production.

The work was performed under the technical management of Mr. Robert G. Dodd and Captain Timothy D. Balliett, Technology Applications Division.



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| Current combustor design tech | nnology depend | is primarily upon |
| empirical correlation and pas designers. There is a contin | st experimenta | i experience of the |
| designers. There is a contin | nuing need for | knowledge of the com- |
| bustion process and how the d | different desi | gn and performance |
| bustion process and how the coparameters are related. The | objective of | this program was to |
| investigate the feasibility of | of measuring o | combustor noise and then |
| relating the noise levels by | correlation o | curves to other pertinent |

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20. Continued. performance parameters, such as combustor efficiency, and mass emissions.

The investigation consisted of the reduction and analysis of previously recorded noise data from a large number of combustor rig tests of T63 sized can combustors which were tested under a U.Š. Army-sponsored low-emission combustor program. Under this program additional tests were conducted with a fixed burner geometry, varying the method of fuel injection so as to provide a large change in mass emissions, and to determine the effects on noise. An engine test of a T63-type low-emission combustor was also conducted to determine combustor noise and emissions performance in an engine environment. Combustor design and performance parameters and noise levels were analyzed to determine their interrelation. Combustor design and performance parameters considered included combustor volume, burner and flame geometry, combustor efficiency, method of fuel injection, cooling scheme, fuel-air ratio, burner inlet conditions, flow split (including variable geometry effects), dilution air entry schemes, swirl. pressure loss, heat release rate, recirculation, and mass emissions (i.e., carbon monoxide, unburned hydrocarbons, oxides of nitrogen and particulates). Using a computer program, a regression analysis was performed on this data to develop a noise-trend model relating the combustor design and performance parameters with combustor noise levels.

No relationship between noise and emissions was established. However, the engine tests of the low-emission premix/swirl burner showed 3 dB combustion noise reduction over a portion of the engine noise spectrum. A turbine noise reduction of 5 dB was also obtained by use of this burner.

PREFACE

This program was conducted for the U.S. Army Air Mobility Research and Development Laboratory, Eustis Directorate, under Contract DAAJO2-73-C-0088, DA Task IG162207AA110. The contract was carried out under the technical cognizance of Capt. T. D. Bailiett and Mr. R. G. Dodd, USAAMRDL, Fort Eustis, whose guidance and suggestions are gratefully acknowledged.

The contributions made by other Detroit Diesel Allison personnel were of great assistance to the authors. Mr. D. L. Troth provided assistance in the area of combustor design, performance, and emissions, and Mr. C. L. Walker provided guidance and suggestions in the initiation as well as execution of this program.

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INTRODUCTION

Gas turbine engine noise at high jet exhaust velocities is composed primarily of jet mixing noise, which is proportional to the eighth power of jet velocity. At reduced jet velocities, it has been generally observed that the apparent jet noise no longer decreases as rapidly as the eighth power of jet velocity. While the true jet noise decreases, internal noise sources emerge into prominence and dominate the overall noise. The noise from turboshaft engines is in the low jet velocity regime, since engine output is shaft work rather than jet velocity. Also, for the new-generation high-bypass turbofan engines, core engine sources, heretofore insignificant in terms of the total problem, are emerging into prominence as fan noise is brought under control. Presently, little is known about core engine noise sources such as turbine, combustor, and obstructions in the engine flowpath. Generation and suppression mechanisms are not well understood, and reliable prediction technology is yet to be developed. Currently, research efforts are under way to fill this void. Supplementing other studies of core engine noise, this research addresses the problem of combustion noise, one of the several core engine sources. Combustion noise may be closely related to other core sources. Turbulence from the combustor may contribute to turbine noise generation, and combustion noise itself may be amplified as it propagates through the exhaust duct. Thus, combustion noise reduction may be the key to significant reduction in core engine noise. It is generally agreed that combustion noise generation is the result of unsteady burning. Nonuniformities in the burning process produce nonuniform density changes which act as local monopole sources. This unsteady burning which is the source of

combustion noise is also undesirable from a mass emission standpoint. Or, conversely, the design characteristics which contribute to pollution abatement may contribute to noise abatement as well.

The objective of this research was to determine the feasibility of measuring combustor noise and then relating the noise levels by correlation curves to other pertinent performance parameters. An experimental program was carried out based primarily upon the T63 can combustor, including the following:

1. Combustor Geometric Variations -

Combustor noise, design, and performance parameters were analyzed for 59 burner configurations to define the interrelationships between noise and design, and noise and performance (including mass emissions). The noise data were obtained for a variety of burner geometries of the T63 type during the performance of a combustion emissions research program (U.S. Army AMRDL Contract DAAJO2-72-C-0005, "Investigation of Aircraft Gas Turbine Combustor Having Low Mass Emissions").

2. Fuel Injection Mode Variation -

The combustion in the burner primary zone would be expected to have a major effect on noise. With a fixed burner geometry, noise measurements were made for two different fuel injection modes (pressure atomized and wall film) in order to alter the primary zone combustion process and provide a wide range of mass emissions.

3. Engine Test of Low Emission Burner -

T63 engine tests were conducted for a low-emission burner to determine combustor noise and emissions performance as compared to a standard combustor.

These three areas of investigation are discussed in the following sections of this report.

DISCUSSION

COMBUSTOR DESIGN, PERFORMANCE AND NOISE

During the experimental phase of a low-emissions aircraft combustor research program⁽¹⁾, noise data was acquired for a large number of T63 size burner designs operating over a range of heat release rates, with burner operating conditions as shown in Tables 1 and 2. The objectives of that program were to reduce total emissions of carbon monoxide, hydrocarbons, oxides of nitrogen, and particulates by a minimum of 50% from a baseline T63-A-5A combustor, while not increasing emissions of the individual pollutants in achieving the overall reduction. Data for 59 of the combustor configurations tested, together with detailed design and combustion performance information, formed the basis for this combustion noise research program.

Combustor Description

The combustors employed in this study were T63 size, can-type burners. The design and performance parameters considered are presented in Table 3.

The values of the design parameters for each of the 59 configurations are given in Table 4, and performance is listed in Table 5 (for each of the burner cycle points). It should be noted that not all combustor configurations were tested at all cycle points.

Troth, D. L., et.al., INVESTIGATION OF AIRCRAFT GAS TURBINE COMBUSTOR HAVING LOW MASS EMISSIONS, Detroit Diesel Allison Division of General Motors, USAAMRDL Technical Report 73-6, U.S. Army Air Mobility Research and Development Laboratory, Fort Eustis, Virginia, April 1973.

TABLE 1. T63-A-5A COMBUSTION SYSTEM OPERATING CONDITIONS FOR NONREGENERATIVE ENGINE

| CYCLE POINT | POW SHP | ÆR % | TOT *R | W _a LB/SEC | W _f LB/HR | BIT *R | BIP PSIA | TIT *R | F/A |
|----------------|-------------|------|--------|--------------------------|-------------------------|--------|-------------|--------|-------|
| | | 10 | - | 1.87 | | 760 | 44.5 | 1502 | .0109 |
| 1. | 33.5 335 | 100 | 1273 | 3.22 | 73.7 229.5 | 984 | 92.3 | 2240 | .0198 |
| 3. | 251 | 75 | 1653 | 2.98 | 178.5 | 932 | 81.0 | 2018 | .0166 |
| 4. | 184 | 55 | 1526 | 2.75 | 143.5 | 890 | 71.5 | 1858 | .0145 |
| 5. | 134 | 40 | 1437 | 2.53 | 119.0 | 857 | 63.7 | 1749 | .0131 |
| 6. | 84 | 25 | 1360 | 2.20 | 96.0 | 813 | 54.8 | 1658 | .0121 |

TABLE 2. T63-A-5A COMBUSTION SYSTEM OPERATING CONDITIONS FOR REGENERATIVE ENGINE

| CYCLE | POW | | | Wa | W _f | | BIP | | |
|-------|-----|-----|--------|--------|----------------|-------|------|--------|-------|
| POINT | SHP | * | TOT *R | LB/SEC | LB/HR | BIT R | PSIA | TIT *R | F/A |
| 1. | 28 | 10 | 1250 | 1.76 | 51 | 1127 | 43.0 | 1677 | .0080 |
| 2. | 280 | 100 | 1755 | 3.04 | 154 | 1430 | 85.0 | 2352 | .0141 |
| 3. | 210 | 75 | 1600 | 2.81 | 122 | 1300 | 75.6 | 2090 | .0121 |
| 4. | 154 | 55 | 1490 | 2.62 | 101 | 1225 | 65.7 | 1940 | .0107 |
| 5. | 112 | 40 | 1415 | 2.46 | 83 | 1175 | 60.2 | 1815 | .0094 |
| 6. | 70 | 25 | 1340 | 2.21 | 69.4 | 1161 | 51.5 | 1746 | .0087 |

TABLE 3. COMBUSTOR DESIGN AND PERFORMANCE PARAMETERS

Design:

Length

Primary Zone

Intermediate Zone

Dilution Zone

Fuel Preparation

Flow Split

Primary Zone Equivalence Ratio

Fuel Injection Mode

Pressure Atomizer

Air Blast

Air Assist

Wall Film

Cooling Method

Film

Convection

Film and Convection

Primary Zone Contour

Conventional

Prechamber

Primary Zone Flow

Axial

Swirl

Dilution Zone Geometry

Fixed

Variable

Performance:

inlet Pressure

Inlet Temperature

Airflow

Overall Fuel-Air Ratio

Combustion Efficiency

Pressure Drop

Temperature Profile

Mass Emissions

CO

CHX

NO_X

Smoke

Noise

TABLE 4. COMBUSTOR CONFIGURATIONS

NOMENCLATURE

Length:

Fuel Prep - Fuel Preparation Zone, inches

PZ - Primary Zone, inches

- Intermediate Zone, inches

Total - Total Liner Length, inches

PZ Flow - Primary Zone Flow Split, (PZ Flow)/(Total Flow),%

Geometry - Dilution Zone Geometry, Fixed or Variable

% Open DZ- Dilution Zone Variable Geometry Setting,
% of Fully Open

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| FLAVE QUENCH | | 7 | 60.7 | | | FILE PULL FILE | 7 1 | ~ • | CCAVENTIONAL | |
| PAFCHANGER, INITIAL DESIGN | 1.56 | 1.62 | 7.36 | 15.54 | 24. | 271701 1903 1965 | THE REPORT OF | 101-5 | PRECMENTS | |
| PICH PREMIX/SWIML | 9.40 | 1.50 | 7.56 | 13.55 | 13.27 | PRESSIBE ATOMIZED | CONVECTION & FILM | 3 | PRECHAMA | FIREC |
| ANTE SUBSTITUTE STATE ST | 0.0 | 2.10 | 7.50 | 15.56 | 39.10 | PRESSURE ATMILEN | , I | ARIA | CCAVENTIONAL | FIXED |
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| FIRST PRECHAMBER, MALL FUEL FILM, INITIAL | 4.45 | 1.59 | 3. 73 | 12.67 | 15.33 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | 3 | | FIXED |
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| PRECIONAL PRESSURE ATTAINED ATTAIN | 50.0 | 25 | | 12.67 | | MALL FUEL FILL | | 2 | PRECHAMAN. | FIXED |
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TABLE 5. COMBUSTOR PERFORMANCE BY CYCLE POINT

NOMENCLATURE

Output Power - % of Max Power

Air Flow - 1b/s

Fuel Flow - 1b/hr

Inlet Temp - Burner Inlet Temperature, °R

Inlet Press - Burner Inlet Pressure, psia

Smoke Number - Measured in Accordance with SAE ARP 1179

Comb. Eff. - Combustion Efficiency, %

DP/P - Burner Pressure Drop, ΔP/Pinlet

TM/TA - (Max BOT)/(Average BOT)

Pattern Factor - (Max BOT) - (Avg BOT) (Avg BOT)-(BIT)

PZ Equiv. - Primary Zone Equivalence Ratio,

Primary Zone f/a
Stoichiometric f/a

TABLE 5. (CONT.)

| | | | | CCMBUS | TOR PERF | ORMANCE | BY CYCLI | FPOINT | |
|------------|----------------|--------------|--------------|--------|----------------|--------------|----------|------------------|------------------|
| | nut | PUT POWER | | AIR FI | | FUEL FI | | INLET TEMP | INLET PRESS |
| | | 0.0 | | | . 87 | | 3.7 | 760. | 44.5 |
| - | EMIS | SICNS. PP | M | SMOKE | COMB | | | PATTERN | |
| NC | CC | C3118 | NCX | NUMBER | EFF | DP/P | TM/TA | FACTUR | PZ EQUIV |
| ì | 893.C | 103.0 | 17.0 | 3.0 | 96.63 | 4.63 | 1.1150 | 0.1616 | 0.4597 |
| 2 | 1031.0 | 282.5 | 16.5 | 2.0 | 93.27 | 4.67 | 1.138C | 0.1760 | U-4390 |
| 3 | 495.0 | 49.0 | 19.0 | 1.7 | 98.18 | 5.10 | 1.2290 | | 0.4597 |
| 4 | 1201.4 | 340.0 | 20.8 | 2.3 | 92.57 | | 1.0628 | 0.0891 | 0.4597 |
| 5 | 1081.4 | 100.0 | 24.5 | 2.9 | 95.56 | 5.03 | 1.1105 | 0.1572 | 0.5561 |
| 6 | | | | | | | | | |
| 7 | 736.1 | 155.0 | 11.5 | 0.4 | 96.33 | 9.54 | 1.0978 | | 0.3867 |
| 8 | 306.6 | 30.0 | 9.0 | 0.0 | 48.93 | P.08 | 1.0952 | 0.1320 | 0.4231 |
| 9 | 118.0 | 5.3 | 22.0 34.5 | 0.2 | 99.66 99.70 | 6.65 5.96 | 1.1543 | 0.2131 0.2653 | 0.4585 |
| 10 | 108.€ | 2.7 | 34.5 | 0.0 | 77. 10 | 7. 70 | 1.1420 | 0.2033 | 0.4962 |
| 12 | | | | | | | | | |
| 13 | 270.6 | 23.0 | 24.0 | 0.8 | 99.13 | 4.14 | 1.1189 | 0.1656 | 0.5357 |
| 14 | 209.6 | 16.4 | 29.0 | 9.1 | 99.37 | | 1.1692 | 0.2363 | 0.6635 |
| 15 | 21c.4 | 16.8 | 32.0 | 15.2 | 99.34 | 3.42 | 1.1821 | 0.2536 | 0.7926 |
| 16 | 225.7 | 12.6 | 36.0 | 23.9 | 99.42 | 3.14 | 1.2543 | 0.3549 | 0.9219 |
| 17 | | | ,,,, | | ,,,,, | , | •••• | 3,3,7,7 | 007227 |
| 18 | | | | | | | | | |
| 19 | 61 5. C | 70.0 | 21.0 | 2.5 | 99.12 | 5.47 | 1.2223 | 0.3160 | 0.4597 |
| 20 | 525.C | 65.0 | 24.5 | 4.4 | 97. d3 | 5.76 | 1.3350 | 0.4670 | 0.4773 |
| 21 | 966 . C | 175.0 | 23.0 | 1.9 | 95.26 | 5.47 | 1.1170 | 0.1670 | 0.436R |
| 22 | | • | | | | | | | |
| 23 | 1042.5 | 260.C | 23.5 | 4.3 | 93.76 | 5.37 | 1.1521 | 0.2176 | 0.4503 |
| 24 | 1004.2 | 200.0 | 22.0 | 3.7 | 94.77 | 5.35 | 1.1719 | 0.2450 | 0.4468 |
| 25 | | | | | | | | | |
| 26 | | | | | | | | | |
| 27 | | | | | | | | | |
| 28 | 400.6 | 36.0 | 20.5 | 4.7 | 98.62 | 9.02 | 1.1806 | 0.2515 | 0.3649 |
| 29 | 202.9 | 6.5 | 32.0 | 2.3 | 99.46 | 7.17 | 1.2021 | 0.2864 | 0.4083 |
| 30 | 170.5 | 2.4 | 30.5 | 2.1 | 99.58 | 6.47 | 1.2214 | 0.3070 | 0.4526 |
| 31 | 166.8 | 1.6 | 42.0 | 2.4 | 99.61 | 6.18 | 1.2645 | 0.3633 | 0.4962 |
| 32 | 1161.0 | 260.0 | 21.0 | 22.5 | 93.88 | 5.56 | 1.3640 | 0.5210 | 0.4597 |
| 33 | 786.0 | 1380.0 | 18.0 | 73.1 | 74.18 | 5.63 | 1.7510 | 1.1220 | 0.4597 |
| 34 | 446.0 | 56 • C | 24.5 | 4.2 | 98.13 | 6.36 | 1.1500 | 0.2120 | 0.5839 |
| 35 | 5 P.T. 0 | 55.0 | 23.5 | 29.7 | 98.06 | 4.74 | 1.1430 | J.1990 | 0.4597 |
| 36 37 | 19.0 | 0.7 | 20.0 | 0.0 | 99.94 | 7.42 | 1.1340 | 0.1880 | 1.3270 |
| 38 | 483.C | 33.0 | 24.5 | 0.0 | 98.59 | 5.05 | 1.1920 | 0.2630 | 0.4597 |
| 39 | 525.C | 70.0 | 5.5 | 0.0 | | 22.28 | 1.0900 | 0.1250 | 0.7063 |
| 40 | 362.0 | 21.0 | 20.0 | 0.0 | 98.96 | 5.63 | 1.1480 | 0.2040 | 0.4597 |
| 41 | 556.C | 63.0 | 21.0 | 35.4 | 97.94 | 5.98 | 1.0950 | 0.1340 | 0.4597 |
| 42 | 966.5 | 101.0 | 2C.7 | 6.7 | 96.55 | 4.62 | 1.2074 | 0.2939 | 0.4597 |
| 43 | 430.0 | 6.5 | 19.5 | 2.5 | 99.00 | 5.90 | 1.2480 | 0.3460 | 1.1678 |
| 44 | 75.C | 0.4 | 14.7 | C.0 | 99.81 | 6.11 | 1.155C | 0.2150 | 1.1678 |
| 45 | 25C.C | 10.0 | 23.4 | 1.3 | 99.29 | 4.99 | 1.1566 | 0.2238 | U. 45 85 |
| 46 | 223.4 | 6.5 | 26.9 | 29.1 | 99.36 | 3.72 | 1.4339 | 0.6214 | 0.6082 |
| 47 | 430.0 | 2.9 | 19.1 | 2.2 | 99.52 | 5.98 | 1.2210 | 0.3070 | 1.1678 |
| 48 | 84.C | 0.7 | 19.0 | 0.0 | 99.78 | 5.86 | 1.1330 | 0.1350 | 1.1678 |
| 49 | | | | | | | | | |
| 50 | 449.9 | 25.0 | 17.9 | 25.0 | 98.64 | 4.37 | 1.1503 | 0.2155 | 0.3954 |
| 51 | 466.0 | 32.0 | 20.8 | 28.0 | 98.50 | 4.03 | 1.2592 | 0.3685 | 0.4585 |
| 52 | 856.6 | 79.0 | 18.6 | 10.3 | 97.C8 | 4.46 | 1.0954 | 0.1361 | 0.4597 |
| 53 | 619.0 | 140.0 | 12.2 | 0.1 | 96.06 | 5.98 | 1.4410 | 0.6190 | 0.7751 |
| 54 | 157.C | 13.0 | 11.7 | 7.1 | 99.43 | 5.70 | 1.2440 | 0.3040 | 0.7751 |
| 55 | 458.0 | 135.0 | 13.1 | 2.5 | 96.51 | 5.74 | 1.3010 | 0.4230 | 0.7751 |
| 56 | 717.8 | 15.2 | 17.9 | 1.5 | 98.24 | 7.00 | 1.1271 | 0.1798 | 0.3884 |
| 57 | 400.4 | 20.0 | 18.0 | 13.0 | 98.75 | 5.21 | 1.1920 | 0.2731 | 0.4585 |
| 5 A 5 9 | 397.0 426.0 | 35.0 85.0 | 19.3 | 22.8 | 98.53 99.73 | 4.03 6.14 | 1.2240 | 0.3146 0.5100 | 0.5491 0.7751 |
| 77 | 720.0 | 07.0 | 16.7 | 0.0 | 77013 | 0.17 | 1.3010 | 0.2100 | 0.1174 |

TABLE 5. (CONT.)

| | | | | CCPBUS | TOR PERF | ORMANCE | BY CYCLE | POINT | |
|-----|-------|-----------|--------------|--------|----------|---------|----------|------------------|-------------|
| | Out | PUT POWER | | AIR F | | FUEL FO | | NLET TEMP | INLET PRESS |
| | 2 | 5.0 | | 2 | . 20 | 96 | 6.0 | 813. | 54.8 |
| - | | SICNS. PP | M | SMIKE | COMB | | | PATTERN | |
| NO | CC | C3H8 | NOX | NUMBER | EFF | DP/P | TM/TA | FACTOR | PZ EQUIV |
| 1 | 652.0 | 37.0 | 32.0 | 7.0 | 98.32 | 4.51 | 1-1420 | 0.2019 | 0.5090 |
| 2 | 786.0 | 125. C | 24.1 | 3.0 | 96.73 | 4.49 | 1.1310 | 0.1880 | 0.4961 |
| 3 | 298.C | 15.8 | 26.5 | 3.8 | 99.21 | 4.61 | 1.2100 | 0.2910 | 0.5090 |
| 4 | 692.7 | 110.0 | 25.6 | 3.4 | 96.99 | 4.43 | 1.0648 | 0.0929 | 0.5090 |
| 5 | 751.7 | 53.0 | 35.5 | 4.1 | 97.92 | 4.82 | 1.0835 | 0.1202 | 0.6157 |
| 6 | | 2200 | ,,,,, | | | | | | |
| ĭ | 339.5 | 19.0 | 28.0 | 1.1 | 99.18 | 9.22 | 1.1074 | 0.1503 | 0.4281 |
| 8 | 164.8 | 6.0 | 35.0 | 3.4 | 99.60 | 8.03 | 1.1249 | 0.1761 | 0.4685 |
| 9 | 104.0 | 0.0 | 3.740 | 3.4 | 77.00 | 0.03 | 101247 | 0.1701 | 0.4085 |
| 10 | | | | | | | | | |
| 11 | | | | | | | | | |
| | 274 6 | 17.0 | 10 6 | | 00.00 | 6 34 | 1 0001 | 0.1367 | A 6513 |
| 12 | 376.C | 17.0 | 19.5 | 0.9 | 98.99 | 5.26 | 1.0883 | 0.1257 | 0.4510 |
| 13 | 202.9 | 9.8 | 25.5 | 2.€ | 99.47 | 4.46 | 1.1129 | 0.1617 | 0.5931 |
| 14 | 119.5 | 2.3 | 33.0 | 5.2 | 99.72 | 3.99 | 1.1127 | 0.1601 | 0.7346 |
| 15 | | | | | | | | | |
| 16 | | | | | | | | | |
| 17 | | | | | | | | _ | |
| 18 | 465.0 | 120.0 | 27.5 | 0.0 | 97.32 | 4.59 | 1.3020 | 0.4170 | 0.5090 |
| 19 | 412.C | 18.4 | 24.0 | 4.8 | 98.99 | 5.55 | 1-2010 | 0.2870 | 0.5090 |
| 20 | 376.C | 26.0 | 25.0 | 11.6 | 98.88 | 5.35 | 1.3250 | 0.4600 | 0.5284 |
| 21 | 718.C | 73.0 | 26.0 | 3.8 | 97.59 | 5.35 | 1-1270 | 0.1830 | 0.4836 |
| 22 | | | | | | | | | |
| 23 | 751.7 | 99.0 | 27.5 | 8.9 | 97.20 | 5.37 | 1.1406 | 0.2035 | 0.4986 |
| 24 | 717.8 | 77.0 | 24.5 | 6.9 | 97.53 | 5.31 | 1.1552 | 0.2237 | C.4947 |
| 25 | | | | | | | | | |
| 26 | | | | | | | | | |
| 27 | 619.2 | 48.0 | 26.5 | 5.5 | 98.22 | 13.30 | 1.1089 | 0.1560 | 0.3559 |
| 28 | 179.2 | 5.0 | 43.0 | 1.7 | 99.58 | 9.14 | 1.1877 | 0.2659 | 0.4040 |
| 29 | 121.8 | 1.5 | 53.5 | 0.3 | 99.72 | 7.33 | 1.1735 | 0.2443 | 0.4521 |
| 30 | 139.0 | 0.9 | 51.5 | 0.3 | 99.69 | 6.72 | 1.2209 | 0.3120 | 0.5011 |
| 31 | | ••• | , | *** | ,,,,,, | •••• | | ******* | |
| 32 | 786.C | 120.0 | 27.0 | 29.0 | 97.07 | 5.57 | 1.3080 | 0.4410 | 0.5090 |
| 33 | 857.0 | 1020.0 | 18.5 | 74.7 | 81.57 | 5.40 | 1.6390 | 1.2440 | 0.5090 |
| 34 | 192.0 | 5.8 | 38.0 | 12.4 | 99.52 | 6.26 | 1.2070 | 0.3800 | 0.6465 |
| 35 | 426.0 | 22.0 | 29.5 | 41.6 | 98.95 | 4.55 | 1.1/40 | 0.2450 | 0.5090 |
| 3.5 | 491.C | 42.0 | | | 98.56 | 22.97 | 1.1130 | 0.1640 | 0.5687 |
| | | | 8.0 | 0.0 | | 7.04 | 1.1430 | 0.1040 | 1.4692 |
| 37 | 22.0 | 0.4 | 26.0 | 0.0 | 99.93 | | | | |
| 38 | 279.C | 9.0 | 26.0 | 0.0 | 99.39 | 5.28 | 1.1770 | 3.2460 | 0.5090 |
| 39 | 65.C | 1.8 | 9.5 | 0.0 | 99.06 | 22.58 | 1.1080 | 0.1550 | 0.7820 |
| 60 | 210.C | 7.5 | 36.5 32.5 | 0.0 | 99.53 | 5.22 | 1.1820 | 0.2580 0.1330 | 0.5090 |
| 41 | 350.C | 19.2 | | 43.8 | 99.12 | 5.50 | 1.0930 | | 0.5090 |
| 42 | 651.5 | 60.0 | 25.7 | 23.5 | 99.03 | 4.22 | 1.2096 | 0.3022 | 0.5090 |
| 43 | 242.0 | 0.6 | 25.2 | 1.8 | 99.52 | 5.83 | 1.2580 | 3.3690 | 1.2929 |
| 44 | 124.0 | 0.3 | 26.7 | 0.0 | 99.74 | 6.49 | 1.1280 | 0.1833 | 1.2929 |
| 45 | 150.8 | 2.5 | 24.5 | 5.9 | 99.66 | 4.86 | 1.1772 | 0.2564 | 0.5011 |
| 46 | 214.1 | | 33.7 | 46.6 | | | 1.3917 | | 0.6/34 |
| 47 | 242.0 | 2.6 | 25.0 | 4.9 | | | 1.2400 | 0.3400 | 1.2929 |
| 48 | 116.0 | 0.2 | 23.1 | 0.0 | 99.73 | 5.64 | 1.1410 | 0.1780 | 1.2929 |
| 49 | | | | | | | | | |
| 50 | | | | | | | | | |
| 51 | 349.5 | 7.3 | 29.4 | 53.0 | 39.17 | 3.26 | 1.2799 | 0.4113 | 0.5077 |
| 52 | 651.5 | 38.0 | 25.2 | 20.9 | 98.28 | 4.57 | 1.1430 | 0.2070 | 0.5090 |
| 53 | 290.C | 40.0 | 17.3 | 1.8 | 98.77 | 5.15 | 1.3570 | 0.5060 | 0.8581 |
| 54 | 97.0 | 2.4 | 19.6 | 14.1 | 99.75 | 5.73 | 1.2320 | 0.3290 | 0.4581 |
| 55 | 143.0 | 26.0 | 13.9 | 0.3 | 99.21 | 6.62 | 1.2830 | 0.4020 | 0.8591 |
| 56 | 365.9 | 4.2 | 19.3 | 4.3 | 99.22 | 6.65 | 1.1115 | J.1890 | 0.4300 |
| 57 | 216.4 | 5.0 | 22.6 | 13.6 | 99.44 | 4.90 | 1.2313 | 0.3341 | 0.5077 |
| 5 8 | | , | | . , | ,,,,, | 4 5 70 | | VI. 371 | 347011 |
| 59 | 146.0 | 15.0 | 16.7 | 0.0 | 99.31 | 6.12 | 1.2940 | 0.4250 | 0.8581 |
| - | | | | | | | | | |

TABLE 5. (CONT.)

| | | | | CCMBUST | TOR PERF | URMANCE | BY CYCLE | POINT | |
|-----|------------|------------|--------------|---------|----------|---------|----------|------------------|------------------|
| | CLTF | PUT PUWER | | AIR FL | | FUEL FI | | NLET TEMP | INLET PRESS |
| | 40 | 0.0 | | 2. | .53 | 119 | 9.0 | £57. | 63.7 |
| _ | | ICNS, PP | M | SMOKE | COMB | | | PATTERN | |
| NO | C G | CSHE | NOX | NUPBER | EFF | UP/P | TM/TA | FACTOR | PZ EQUIV |
| 1 | 496.0 | 15.8 | 41.1 | 12.0 | 98.94 | 4.53 | 1.1200 | 0.1724 | 0.5487 |
| 2 | 581.0 | 38.0 | 32.1 | 3.4 | 98.48 | 4.66 | 1.1180 | 0.1710 | 0.5239 |
| 3 | 186 . C | 5.1 | 35.0 | 3.3 | 99.58 | 5.09 | 1.1980 | 0.2780 | 0.5487 |
| 4 | 587.4 | 34.0 | 31.4 | 3.8 | 99.60 | 4.64 | 1.0602 | 0.0867 | 0.5487 |
| 5 | 525.3 | 12.2 | 40.5 | 2.4 | 98.96 | 5.21 | 1.0002 | 0.0878 | 0.6636 |
| 6 | 495.5 | 26. C | 29.0 | 3.3 | 98.88 | 11.94 | 1.1369 | 0.1975 | 0.4181 |
| 7 | 204.6 | 6.7 | 43.5 | 0.8 | 99.57 | 9.66 | 1.1289 | 0.1849 | 0.4615 |
| 8 | 125.6 | 2.4 | 49.0 | 0.3 | 99.74 | 8.29 | 1.0835 | 0.1201 | 0.5049 |
| 4 | | | | | | | | | |
| 10 | | | | | | | | | |
| 11 | 507.4 | 40.0 | 31.5 | 1.2 | 98.55 | 7.06 | 1.1027 | 0.1490 | 0.3318 |
| 12 | 237.6 | 4.0 | 34.5 | 1.7 | 99.52 | 5.73 | 1.0803 | 0.1167 | 0.4862 |
| 13 | 104.5 | 1.3 | 41.0 | 4.3 | 99.17 | 4.57 | 1.1292 | 0.1860 | 0.6393 |
| 14 | | | | | | | | | |
| 15 | | | | | | | | | |
| 16 | | | | | | | | | |
| 17 | 1381.4 | 110.0 | 23.0 | 1.3 | 56.48 | 8.81 | 1.1455 | 0.2741 | 0.3318 |
| 18 | 390.0 | 34.0 | 35.0 | 11.5 | 98.83 | 4.91 | 1.2060 | 0.2910 | 0.5487 |
| 19 | 273.0 | 5.0 | 30.5 | 4.2 | 99.44 | 5.57 | 1.1870 | 0.2720 | 0.5487 |
| 20 | 301.0 | 12.8 | 31.5 | 15.5 | 99.27 | 5.93 | 1.2720 | 0.3890 | 0.5696 |
| 21 | 495.0 | 16.5 | 28.0 | 5.2 | 98.87 | 5.52 | 1.1550 | 0.2270 | 0.5213 |
| 22 | 7.0 | 10. | 20.0 | , | ,0 | 24.76 | ,,, | 0122.0 | 0.72. |
| 21 | 495.C | 19.0 | 29.5 | 9.5 | 98.86 | 5.57 | 1.1698 | 0.2472 | 0.5374 |
| 24 | 465.2 | 18.0 | 31.0 | 8.9 | 98.91 | 5.45 | 1.1603 | 0.2340 | 0.5333 |
| 25 | 403.2 | 10.0 | 31.0 | 0. | 70. 71 | 7.47 | 1.1003 | 0.2340 | 0.7333 |
| 26 | 112C.8 | 110.0 | 33.0 | 5.2 | 96.85 | 18.91 | 1.0949 | 0.1390 | 0.3580 |
| 21 | 302.5 | 15.4 | 36.5 | 3.4 | 95.17 | 13.59 | 1.0792 | 0.1146 | 0.3836 |
| 29 | 112.4 | 1.8 | 66.0 | 1.6 | 99.76 | 9.04 | 1.1237 | 0.1778 | 0.4355 |
| 29 | 123.7 | 1.3 | 66.0 | 2.3 | 99.73 | 7.21 | 1.1428 | 0.2349 | 0.4873 |
| 30 | 16 20 4 | 1 . 3 | 00.0 | 2.3 | 77013 | 1021 | 101420 | 0.2047 | 0.4013 |
| 31 | | | | | | | | | |
| | 607 C | | 17 1 | 34 1 | 00 24 | 6 6 3 | 1.2973 | 0.4330 | 0.5487 |
| 32 | 587.C | 71.C | 27.3 | 24.1 | 98.36 | 5.42 | 1.2713 | 0.4330 | 0.5467 |
| 33 | 1.00 0 | | | 14.7 | 99.75 | 6.22 | 1.2690 | J. 1890 | C.6968 |
| 34 | 109.0 | 1.9 7.2 | 46.0 37.0 | 13.7 | 99.43 | 4.85 | 1.1/10 | 0.2430 | 0.5487 |
| | 281.0 | | | 43.9 | | 22.84 | 1.1090 | G-1580 | 0.6130 |
| 36 | 127.C | 4.2 | 12.6 | 0.0 | 99.74 | 7.04 | 1.1150 | 0.165) | 1.5837 |
| 37 | 26.0 | J. 5 | 34.5 | J. O | 99.43 | | | 0.2140 | 0.5487 |
| 38 | 151.0 | 1-7 | 40.5 | 2.6 | | 5.19 | 1.1510 | 0.1230 | |
| 39 | 35.C | V.2 | 13.0 | C.O | 99.94 | 24.36 | 1.0850 | | 0.8429 |
| 40 | 135.C | 2.3 | 46.0 | 1.2 | 44.13 | 5.32 | 1.1660 | 0.2410 0.1560 | 0.5487 0.5487 |
| 41 | 212.0 | n • 0 | 42.5 | 44.1 | 99.57 | 5.46 | 1.1080 | | |
| 42 | 525.3 | 25.0 | 35.9 | 14.8 | 58.79 | 4.43 | 1.1617 | 0.2355 | 0.5487 |
| 4 5 | 194.0 | 0.0 | 31.0 | .'. 4 | 99.64 | 5.86 | 1.2010 | 0.2890 | 1.3736 |
| 44 | 141.0 | 0.4 | 36.9 | C • O | 99.72 | 6.25 | 1.1276 | 0.1830 | 1.3936 |
| 45 | 101.2 | J. 7 | 38.4 | 11.4 | 94.19 | 4.75 | 1.1617 | 0.2385 | 0.54/2 |
| 46 | 196.3 | 0.9 | 57.0 | 57.7 | 99.59 | 3.53 | 1.3334 | 0.4967 | 0.7259 |
| 47 | 154.0 | 2.7 | 29.3 | 6.2 | 99.59 | 5.78 | 1.2200 | 0.3170 | 1.3936 |
| 4.8 | 135.0 | U. 7 | 32.1 | 0.0 | 44.7C | 5.76 | 1.1540 | 0.2220 | 1.3436 |
| 49 | | | | | | | | | |
| 50 | | , i | | | | | | 0 1/ 77 | 0.64. |
| 51 | 201.9 | 3.1 | 36.5 | 54.0 | 99.45 | 3.17 | 1.2327 | 0.3472 | 0.5472 |
| 52 | 465.2 | 14.4 | 31.4 | 10.6 | 99.12 | 4.32 | 1.1553 | 0.2275 | 0.5487 |
| 53 | 127.C | 9.4 | 27.1 | 1.0 | 99.41 | 5.92 | 1.2770 | 0.3580 | 0. 1257 |
| 54 | 87.0 | U. A | 29.4 | 14.7 | 95.81 | 5.66 | 1.2300 | 300 د .0 | 0.9250 |
| 55 | 159.C | 17.€ | 19.5 | 2.4 | 99.53 | 7.18 | 1.2550 | J. 165J | 0.9250 |
| 56 | 202.7 | 2.6 | 30.0 | 4.5 | 99.41 | 7.08 | 1.1155 | 0.1642 | 0.4635 |
| 57 | 166. P | 2.3 | 27.9 | 14.3 | 99.60 | 5.19 | 1.2643 | 0.3932 | 0.5472 |
| 58 | 183.4 | 2.2 | 36.6 | 36.4 | 99.63 | 3.45 | 1.1539 | 0.2212 | 0.6553 |
| 55 | 129.3 | + . 4 | 25.4 | 0.0 | 99.65 | 6.78 | 1.5330 | 0.2376 | C.9250 |

TABLE 5. (CONT.)

| | | | | COMBUS | GEMANCE | AN CALLE | | | |
|----------------|---------|--------|----------|--------|----------------------|----------|-----------|-------------|--|
| CUTFUT PINER | | | AIR FLCW | | FUFE F | | NEFT TEMP | INLET PRESS | |
| 55.0 | | | | | . 15 | | 3.5 | 890. | 71.5 |
| EMISSICNS, PPM | | | SMOKE | CUMB | • | - • | PATTERN | | |
| NO | co | C 3118 | NEX | AUMBER | EFF | DP/P | TM/TA | FACTOR | PZ EQUIV |
| 1 | 303.0 | 4.1 | 45.6 | 17.0 | 94.36 | 4.44 | 1.1130 | 0.1628 | 0.6087 |
| ž | 470.0 | 13.0 | 38.7 | 4.6 | 99.09 | 4.44 | 1.1170 | 0.1680 | 0.5813 |
| 3 | 94.0 | 1.0 | 47.0 | 2.8 | 99.81 | 4.91 | 1.1710 | 0.2400 | 0.6087 |
| 4 | 466 . C | 10.6 | 58.7 | 4.4 | 99.17 | 4.00 | 1.089 | J.1268 | 0.6087 |
| 5 | 379.4 | 3.1 | 44.5 | 2.5 | 99. 18 | 5.19 | 1.0719 | 0.1037 | 0.7363 |
| 6 | | | | | | ,,,, | | •••• | •••• |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| g | | | | | | | | | |
| 10 | | | | | | | | | |
| li | 349.5 | 3.5 | 36.0 | 3.8 | 99.37 | 6.68 | 1.1446 | 0.2068 | 0.3631 |
| 12 | 154.7 | 1.7 | 43.0 | 5.5 | 99.73 | 5.81 | 1.0942 | 0.1219 | C.5393 |
| 13 | 13407 | 1., | 43.0 | 9.5 | 41013 | 2.01 | 1.0542 | 0.1214 | 6.5393 |
| 14 | | | | | | | | | |
| | | | | | | | | | |
| 15 | | | | | | | | | |
| 16 | | | 30.0 | | | D 40 | 1 1461 | 1 1512 | 0.3.41 |
| 17 | 656.6 | 52.0 | 28.0 | 1.9 | 91.90 | 9.40 | 1.1651 | 0.2412 | 0.3681 |
| 18 | 258.0 | 10.4 | 42.0 | 12.9 | 99.47 | 4.78 | 1.2520 | 0.3540 | 0.6087 |
| 19 | 183.3 | 2.6 | 44.5 | 7.4 | 79.67 | 5.18 | 1.1570 | 0.2270 | 0.6087 |
| 20 | 223.0 | 5.4 | 39.5 | 20.6 | 99.56 | 5.84 | 1.2500 | 0.3560 | C.5319 |
| 21 | 359.0 | 4.2 | 38.5 | 6.8 | 99.34 | 5.24 | 1.1580 | J.2280 | J.5784 |
| 22 | | | | | | | | | |
| 23 | 302.5 | 4.0 | 29.0 | 15.8 | 99.35 | 5.39 | 1.1586 | 0.2302 | 0.5962 |
| 24 | 155.9 | 5. 2 | 28.0 | 12.8 | 99.36 | 5.26 | 1.1427 | 0.2070 | 0.5916 |
| 25 | | | | | | | | | |
| 26 | | | | | | | | | |
| 21 | 103.4 | 2.4 | 53.5 | 2.5 | 99.67 | 12.57 | 1.0785 | 0.1131 | 0.4255 |
| 28 | 101.2 | 0.5 | 77.5 | 1.7 | 99.80 | 8.75 | 1.1051 | 0.1504 | G.4832 |
| 29 | 141.0 | J. 4 | 72.5 | 2.8 | 99.74 | 6.83 | 1.1521 | 0.2159 | C.5406 |
| 30 | | | | | | | | | |
| 31 | | | | | | | | | |
| 32 | 376.0 | 22.0 | 40.5 | 24.7 | 99.21 | 5.58 | 1.2380 | 0.3430 | 0.6067 |
| 33 | | | | | | | | | |
| 34 | H3.C | 2.9 | 53.0 | 18.8 | 99.80 | 5.94 | 1.1130 | 0.1620 | 0.7731 |
| 35 | 171.7 | 2.1 | 46.5 | 51.1 | 99.71 | 4.55 | 1.1570 | J.2230 | 0.6087 |
| 36 | 50.0 | 0.2 | 17.0 | 0.0 | 94.92 | 23.13 | 1.1190 | 0.1740 | C.680l |
| 37 | 41.0 | J. 2 | 48.0 | 9.6 | 99.90 | 7.03 | 1.1880 | 0.2710 | 1.7570 |
| 38 | 76.0 | 0.4 | 57.0 | 5.5 | 99.86 | 4.83 | 1.181C | 0.2540 | 0.6087 |
| 34 | 4C.C | 0.8 | 28.0 | 0.0 | 99.93 | 23.85 | 1.1930 | 0.2810 | 0.9352 |
| 40 | 112.C | 1.1 | 60.5 | 0.1 | 99.80 | 5.44 | 1.1630 | 0.2290 | 0.6087 |
| 41 | 151.C | 1.1 | 51.5 | 50.5 | 99.74 | 5.40 | 1.0950 | 0.1160 | 0.6087 |
| 42 | 461.9 | 11.2 | 39.2 | 46.6 | 49.16 | 4.34 | 1.1739 | 0.2526 | 0.6087 |
| 43 | 119.0 | 0.5 | 42.8 | 10.5 | 99.67 | 5.01 | 1.2560 | 0.3720 | 1.5461 |
| 44 | 171.C | J. 6 | 45.2 | 4.9 | 99.66 | 6.09 | 1.1110 | 0.1590 | 1.5461 |
| 45 | 87.3 | 0.6 | 53.1 | 20.5 | 99.83 | 4.74 | 1.1627 | 0.2395 | 0.6071 |
| 46 | 211.9 | J.7 | 59.8 | 64.9 | 99.60 | 3.56 | 1.2894 | 0.4307 | 0.8053 |
| 47 | 179.0 | 0.8 | 39.1 | 14.3 | 99.62 | 5.61 | 1.2360 | 0.3380 | 1.5461 |
| 48 | 167.C | 0.1 | 38.7 | 3.0 | 99.66 | 5.83 | 1.1500 | 0.2160 | 1.5461 |
| 49 | 237.6 | 1.4 | 28.1 | 47.6 | 99.62 | 4.45 | 1.2413 | 0.3489 | 0.4311 |
| 5 C | 245.0 | 0.8 | 27.4 | 56.6 | 95.60 | 3.98 | 1.1423 | 0.2064 | 0.5235 |
| 51 | 229.1 | 1.8 | 33.7 | (3.3 | 99.59 | 3.31 | 1.2070 | G.3012 | 0.6071 |
| 52 | 351.0 | 4.6 | 37.5 | 41.9 | 99.39 | 4.24 | 1.1516 | 0.2189 | U.6087 |
| 53 | 167.C | 1.2 | 35.5 | 0.1 | 45.60 | 5.79 | 1.2900 | 0.4130 | 1.026? |
| 54 | 124.0 | 0.2 | 42.2 | 31.5 | 99.78 | 5.38 | 1.2460 | 0.3530 | 1.0267 |
| 55 | 161.0 | 7.2 | 29.8 | 0.1 | 99.55 | 6.45 | 1.2530 | 0.3640 | 1.0262 |
| 56 | 101.3 | 1.7 | 35.1 | 10.2 | 99.65 | 6.87 | 1.1276 | J.1843 | 0.5142 |
| 57 | 154.7 | 2.2 | 38.4 | 24.7 | 39.64 | 4.91 | 1.2955 | 0.4276 | J.6071 |
| 58 | 17401 | | | | , , • U V | 4.71 | | V. 12 70 | J. J |
| 59 | 157.C | U. 7 | 40.0 | C.0 | 99.6A | 6.67 | 1.2300 | 0.3350 | 1.0262 |

TABLE 5. (CONT.)

| | CUTPUT POWER | | | CCMBUSTUR PERF AIR FLCW 2.58 | | ORMANCE BY CYCLE FUEL FLCW 178.5 | | POINT NLET TEMP 932. | INLET PRESS 81.0 |
|-----|--------------|-------|--------|------------------------------------|-------|----------------------------------|--------|----------------------------|---------------------|
| _ | EMISS | SPEKE | COMB | • | | PATTERN | | | |
| NU | c n | C 348 | NCX | NUMBER | EFF | UP/P | AT/MT | FACTOR | PZ EQUIV |
| ĭ | 214.C | 0.7 | 59.0 | 25.0 | 75.68 | 4.38 | 1.1040 | 0.1485 | 0.6987 |
| ż | 276.0 | 2.1 | 54.8 | 3.5 | 99.58 | 4.57 | 1.1020 | 0.1470 | 0.6672 |
| ۇ | 39.0 | | | | | | 1.1290 | | |
| | | 0.5 | 68.0 | 4.2 | 99.91 | 4.74 | | 0.1810 | 0.6987 |
| 4 | 257.6 | 1.7 | 49.9 | 3.0 | 99.64 | 4.50 | 1.0659 | 0.0934 | 0.6987 |
| 5 | 270.7 | 0.6 | 56.0 | 5.5 | 99.71 | 4.90 | 1.0702 | 0.0999 | 0.8451 |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | 114.3 | 1.6 | 91.5 | 0.0 | 99.78 | 7.46 | 1.1089 | 0.1548 | 0.6430 |
| 4 | | | | | | | | | |
| 10 | | | | | | | | | |
| 11 | 135.2 | 1.5 | 55.5 | 4.8 | 99.78 | 6.51 | 1.1396 | 0.2009 | 0.4226 |
| 12 | 61.5 | 1.1 | 60.5 | 0.0 | 99.89 | 5.48 | 1.0579 | 0.0830 | 0.6191 |
| 13 | - • • | | | | | | | | |
| 14 | | | | | | | | | |
| 15 | | | | | | | | | |
| 16 | | | | | | | | | |
| 17 | 645 C | 7. H | 21.5 | 4 7 | 00 75 | 8.79 | 1.1814 | 0.2609 | 0.4334 |
| 18 | 445.9 | 2.1 | | 4.7 | 99.25 | 4.68 | 1.1940 | 0.2690 | 0.4226 0.6987 |
| | 139.0 | | 68.0 | 23.5 | | | 1.1940 | | |
| 19 | 100.0 | 1.1 | 58.5 | 13.0 | 99.83 | 5.02 | 1.1550 | 0.2210 | 0.6987 |
| 20 | 143.C | 1.2 | 52.0 | 30.4 | 99.77 | 5.24 | 1.2480 | 0.3510 | 0.7254 |
| 21 | 278.0 | 1.6 | 53.5 | 10.3 | 99.63 | 5.15 | 1.1980 | 0.2840 | 0.6639 |
| 2.5 | | | | | | | | | |
| 23 | 221.C | J. F | 43.0 | 17.3 | 99.66 | 5.02 | 1.1710 | 0.2453 | 0.6844 |
| 24 | | | | | | | | | |
| 25 | 1) 4.2 | 56.) | 67.0 | 3.2 | 97.79 | 22.92 | 1.2937 | 0.4280 | 0.4226 |
| 26 | | | | | | | | | |
| 21 | | | | | | | | | |
| 28 | | | | | | | | | |
| 24 | | | | | | | | | |
| 3 C | | | | | | | | | |
| 31 | | | | | | | | | |
| 32 | 197.3 | 4.6 | 67.0 | 28.0 | 19.49 | 5.41 | 1.2000 | 0.2850 | 0.6987 |
| 33 | , | ••• | .,,,,, | 2200 | | ,,,, | | 012070 | 0.0701 |
| 34 | 41.C | 0.7 | 68.5 | 35.5 | 99.83 | 5.66 | 1.2760 | J.3270 | 0.8874 |
| 35 | 17.0 |). 9 | 67.5 | 43.1 | 99.84 | 4.54 | 1.2240 | 0.3220 | 0.6987 |
| | | | | | | | 1.0920 | | |
| 36 | 15.0 | 1.3 | 34.5 | 0.0 | 99.93 | 21.57 | | 0.1320 | 0.7807 |
| 37 | 67.C | 0.1 | 84.0 | 18.7 | 49.86 | 6.42 | 1.1410 | 0.2020 | 2.0168 |
| 38 | 53.C | 0.4 | 75.5 | 13.1 | 99.93 | 4.76 | 1.1930 | 0.2700 | 0.6987 |
| 39 | 52.C | J • 1 | 49.5 | 0.0 | 99.92 | 24.25 | 1.1800 | 0.2590 | 1.0735 |
| 4 C | 33.0 | 1.7 | 82.0 | 0.2 | 49.82 | 5.30 | 1.1910 | 0.2670 | 0.6987 |
| 41 | 1 .3.0 | 0.9 | 71.5 | 56.2 | 99.93 | 5.43 | 1.0880 | 0.1260 | 0.6987 |
| 42 | 239.6 | 2.1 | 49.3 | 5d.6 | 99.58 | 4.33 | 1.1585 | 0.2275 | 0.6987 |
| + 5 | 147.0 | 1.1 | 51.1 | 20.0 | 99.69 | 5.27 | 1.2760 | 0.3240 | 1.7748 |
| 44 | 1.55.0 | 0.0 | 50.3 | 15.0 | 99.67 | 5.83 | 1.1320 | 0.1890 | 1.7748 |
| 45 | 65.3 | J. 4 | 69.7 | 18.5 | 99.85 | 4.39 | 1.1816 | 0.2655 | 0.6969 |
| 46 | | | | | | | | | |
| 41 | 157.C | 2.5 | 44.9 | 25.0 | 95.62 | 5.39 | 1.3120 | 0.4450 | 1.7748 |
| 4 8 | 181.0 | 0.1 | 41.1 | 11.2 | 79.68 | 5.06 | 1.1700 | 0.2400 | 1.7748 |
| 49 | | . • • | | | | | | - 10 | |
| 50 | 107.7 | 0.5 | 42.9 | 63.7 | 99.12 | 3.78 | 1.1507 | 0.2158 | 0.6009 |
| 51 | 183.4 | 0.8 | 40.8 | 67.0 | 99.69 | 3.28 | 1.2371 | 0.3426 | 0.6969 |
| 52 | 242.5 | 1.1 | 49.0 | 50.0 | 99.65 | 4.02 | 1.1406 | 0.2023 | 0.6987 |
| 53 | | | | | | | | 0.2023 | |
| | 175.0 | 2.1 | 51.6 | 3.3 | 99.68 | 5.81 | 1.2740 | | 1.1780 |
| 54 | 153.0 | 0.6 | 62.1 | 52.7 | 99.75 | 5.32 | 1.2250 | 0.3210 | 1.1780 |
| 55 | 1/1.0 | 1.3 | 49.1 | 0.0 | 99.65 | 6.62 | 1.3070 | 0.4360 | 1.1780 |
| 50 | 131.3 | 0.2 | 44.0 | 19.8 | 99.78 | 6.56 | 1.1389 | 0.1399 | 0.5903 |
| 5.7 | 124.1 | 0.8 | 42.4 | 38.1 | 99.70 | 4.53 | 1.3183 | 0.4588 | 0.6969 |
| 50 | | | | 2.0 | 00 31 | | | 0.4540 | 1 1700 |
| 54 | 157.0 | 0.2 | 57.4 | 0.0 | 99.73 | 6.15 | 1.3170 | 0.4560 | 1.1780 |

TABLE 5.4 (CONT.)

| | OUTPUT POWER | | | CCMBUSTOR PERF AIR FLCW 3.22 | | FORMANCE BY CYCL FUEL FLOW 229.5 | | E POINT INLET TEMP 984. | INLET PRESS |
|----|--------------|-------|-------|------------------------------------|--------|--|--------|-------------------------------|-------------|
| - | FMISS | SMUKE | COMB | | | PATTERN | | | |
| NO | CO | C3H8 | NOX | NUMBER | EFF | DP/P | TM/TA | . FACTOR | PZ EQUIV |
| 1 | 75.0 | 0.6 | 81.0 | 30.0 | 99.88 | 4.14 | 1.065C | 0.0915 | 0.8314 |
| 2 | 99.6 | 0.2 | 76.8 | 4.6 | 99.86 | 4.36 | 1.0990 | 0.1390 | 0.7939 |
| 3 | 23.0 | 0.4 | 113.3 | 0.6 | 99.93 | 4.59 | 1.1880 | 0.2590 | 0.8314 |
| 4 | 78.2 | 0.8 | 71.7 | 1.4 | 99.89 | 4.29 | 1.0694 | 0.0972 | 0.8314 |
| 5 | 71.5 | 0.5 | 76.0 | 1.5 | 99.89 | 4.63 | 1.0707 | 0.0996 | 1.0056 |
| 6 | | 0.0 | | *** | ,,,,,, | 4005 | | 0.0770 | 110070 |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| ç | | | | | | | | | |
| 16 | | | | | | | | | |
| ii | 34.4 | 1.7 | 82.0 | 4.3 | 99.92 | 6.30 | 1.1571 | 0.2214 | 0.5028 |
| 12 | 3707 | 1., | 07.0 | 4.5 | 77.72 | 0.30 | 1.13/1 | 0.2214 | 0.7026 |
| | | | | | | | | | |
| 13 | | | | | | | | | |
| 14 | | | | | | | | | |
| 15 | | | | | | | | | |
| 16 | 114 3 | 1 4 | E4 0 | 4 0 | 00 02 | 0 30 | 1 1444 | 0 3050 | 0.5030 |
| 17 | 116.2 | 1.0 | 56.0 | 4.0 | 99.83 | 8.28 | 1.1465 | 0.2059 | 0.5028 |
| 18 | 57.0 | 1.2 | 111.5 | 22.5 | 98.89 | 4.36 | 1.1610 | 0.2200 | 0.8314 |
| 19 | 41.C | 0.8 | 97.5 | 15.5 | 99.91 | 4.34 | 1.1510 | 0.2130 | 0.8314 |
| 20 | 72.0 | 0.9 | 86.5 | 0.0 | 99.83 | 4.99 | 1.1920 | 0.2670 | 0.8631 |
| 21 | 109.C | 0.5 | 76.0 | 14.0 | 99.84 | 4.58 | 1.1490 | 0.2100 | 0.7900 |
| 22 | 112.4 | 0.6 | 09.0 | 16.2 | 75.83 | 4.72 | 1.1742 | 0.2466 | 0.8185 |
| 23 | | | | | | | | | |
| 24 | | | | | | | | | |
| 25 | | | | | | | | | |
| 26 | | | | | | | | | |
| 27 | | | | | | | | | |
| 28 | | | | | | | | | |
| 29 | | | | | | | | | |
| 30 | | | | | | | | | |
| 31 | | | | | | | | | |
| 32 | 56.C | 1.2 | 110.0 | 24.2 | 99.90 | 4.95 | 1.1940 | 0.2740 | 0.8314 |
| 33 | | | | | | | | | |
| 34 | 72.0 | 0.5 | 86.5 | 57.2 | 99.87 | 5.22 | 1.2310 | 0.3280 | 1.0559 |
| 35 | 39.0 | 0.4 | 103.0 | 40.3 | 49.92 | 4.46 | 1.2390 | 0.3320 | 0.8314 |
| 36 | • • • | • • | | | | | | | |
| 37 | 79.0 | 0.1 | 136.0 | 30.7 | 99.85 | 6.31 | 1.1520 | 0.2150 | 2.3998 |
| 36 | 17.0 | 0.0 | 118.5 | 14.0 | 99.94 | 4.48 | 1.1550 | 0.2120 | 0.8314 |
| 39 | | | | | | | | | |
| 40 | n 7 . 0 | 1.9 | 116.0 | 0.0 | 95.87 | 4.82 | 1.1690 | 0.2360 | 0.8314 |
| 41 | oC.C | J.9 | 101.5 | 62.9 | 99.89 | 5.27 | 1.0870 | 0.1220 | 0.8314 |
| 42 | 112.4 | 3.8 | 70.6 | 55.8 | 99.65 | 4.05 | 1.1209 | 0.1700 | 0.8314 |
| 43 | 116.0 | 1.0 | 90.9 | 61.3 | 99.79 | 4.75 | 1.2230 | 0.3150 | 2.1118 |
| 44 | 171.C | 0.C | 56.9 | 41.9 | 99.74 | 5.30 | 1.2260 | 0.3200 | 2.1118 |
| 45 | 62.0 | J. 5 | 112.9 | 51.6 | 99.88 | 4.23 | 1.2021 | 0.2859 | 0.8292 |
| 46 | | | | | | | | 0,20,7 | |
| 47 | | | | | | | | | |
| 40 | 159.0 | 0.1 | 50.5 | 11.0 | 95.13 | 5.21 | 1.2220 | 0.3160 | 2.1118 |
| 49 | | | | | | 716. | | 013100 | |
| 50 | 138.6 | J. 1 | 69.6 | 65.5 | 99.84 | 3.45 | 1.2410 | 0.3432 | 0.7151 |
| 51 | 123.7 | 0.3 | 78.6 | 75.2 | 99.82 | 3.02 | 1.2318 | 0.3305 | 0.8292 |
| 52 | 57.4 | 3.0 | 68.3 | 56.9 | 99.87 | 2.91 | 1.1477 | 0.2097 | 0.8314 |
| 53 | | 0.0 | 00.3 | JU 6 7 | 77601 | - 0 71 | | 0.2071 | V8 U 7 L Y |
| | 114 3 | 0.5 | 02 1 | 42 1 | 00 02 | 6 24 | 1 2100 | 0 4070 | 1 4014 |
| 54 | 114.3 | 0.5 | 82.1 | 62.1 | 95.83 | 5.24 | 1.2190 | 0.3070 | 1.4016 |
| 25 | c 7 | 0.3 | 46 1 | 31 0 | 00 00 | | 1 1/51 | 0 3054 | 0.7034 |
| 56 | 97.4 | 0.2 | 65.1 | 31.0 | 99. 65 | 6.01 | 1.1451 | 0.2054 | 0.7024 |
| 57 | | | | | | | | | |
| 58 | | | | | | | | | |
| 59 | | | | | | | | | |

Noise Data Acquisition

The combustion noise data which were analyzed in this program were recorded in the DDA Combustion Research Facility using the T63 combustor experimental arrangement shown in Figure 1. The combustion research laboratory provided a semi-reverberant environment for noise measurement so that comparative data between various combustors was obtained. Sound power spectra are obtained from the sound pressure level measurements by comparison with a standard reference sound source.

Noise data were recorded with three microphones in the test cell, located on a line 2 feet to the side of the burner centerline and in line with, 2 feet forward of, and 2 feet aft of the burner dome. The test cell arrangement with one microphone in position is shown in Figure 2. Noise data

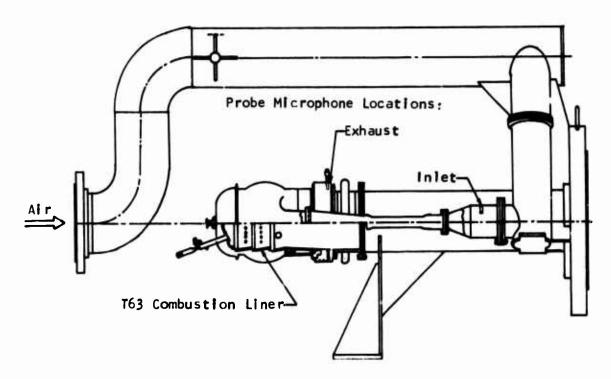


Figure 1. Experimental Installation of T63 Combustor.

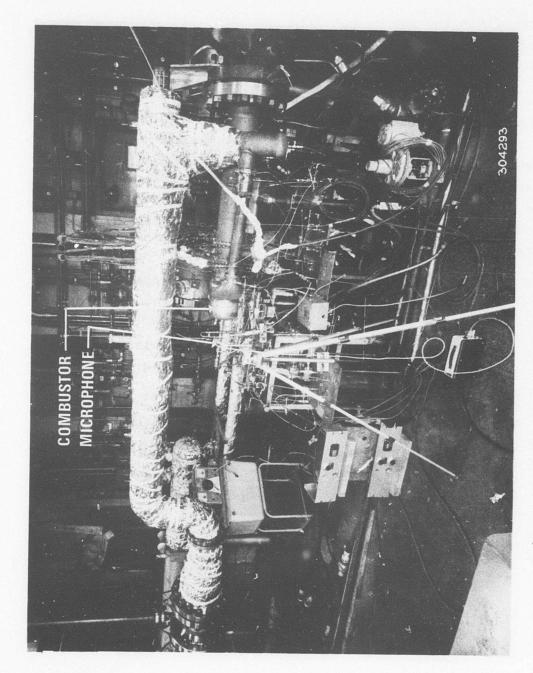


Figure 2. Laboratory Test Cell Arrangement.

from within the burner was also recorded with two probe microphones, one in the burner inlet duct and one in the burner exhaust, located as shown in Figure 1.

The probe microphones consisted of a 1/4-inch-diameter probe tube which was inserted into the high temperature regions of the burner facility. The probe tube passed into a transition section containing the sensing element. The transition is carefully designed to prevent reflections, and is terminated by an "infinite" tube. The probe microphone, transition, and acoustic termination are shown in Figure 3. Data recording instrumentation was as follows:

- 3 microphones, Bruel & Kjaer 1/2" condenser, Type 4134
- 2 probe microphones, PCB Piezotronics tubular pressure probe

Tape recorder, General Radio Company Type 1525A Microphone calibrator, General Radio Company Type 1562A

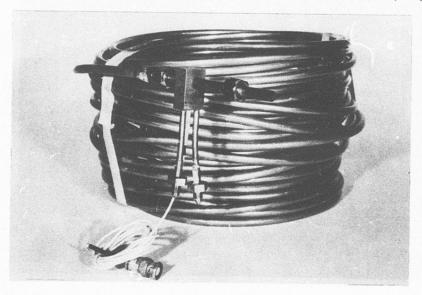


Figure 3. Probe Microphone, Transition, and Acoustic Termination.

Noise Data Analysis

The tape recorded noise data were frequency analyzed by means of a General Radio Company 1/3 octave real-time analyzer, Type 1921. The analyzer output was stored on digital tape and subsequently computer processed to yield 1/3 octave and octave sound pressure level tabulations for each of the three test cell microphones and 2 probe microphones. The tabulated noise data are presented in Appendix 1.

Acoustical calibration of the combustion test cell was accomplished by means of a standard reference sound power level source (ILG Industries, Code No. 181-012ZA). The standard source was positioned in the same location as the burner rig and its noise output was recorded and analyzed. Comparison of the measured sound pressure levels with known sound power levels for the standard sound source provides the room calibration curve of Figure 4. By means of this

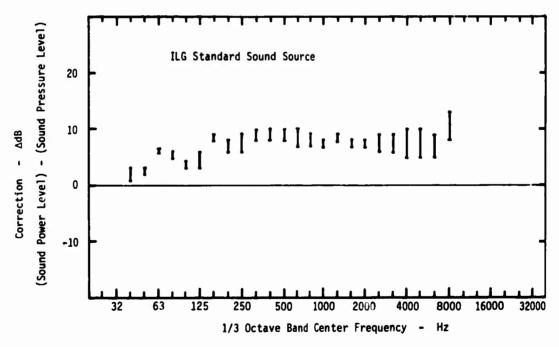


Figure 4. Acoustical Calibration of Combustion Test Cell.

room calibration, the sound power level (dB. re 10^{-12} watts) of the various burner rigs can be established. source measurements were made at the three microphone locations used for burner noise data recording, and, as shown in Figure 4, the sound level variation with position is not great. The sound power level, being a fundamental property of the source, is useful for comparing the noise measured for these burners with other data obtained in other environments. However, caution must be exercised in making such comparisons. For example, the fuel injection mode tests reported in a subsequent section of this report employed a burner with a substantially heavier case, and thus a transfer function different from that of the T63 burner, making comparisons of externally measured levels meaningless. Also, for the engine tests of the low-emission T63 burner (also reported subsequently) levels cannot be compared with these rig tests because the exhaust ducts were open, while the rig system was totally closed.

The frequency bands in which T63 combustion noise exists were determined by comparing sound spectra with and without burning. Figures 5 and 6 show spectra for the baseline burner with and without combustion for the test cell microphone and the inlet probe microphone. Burner inlet conditions were the same with and without burning. For the test cell microphone, 500 Hz was selected as representative of combustion noise, while for the inlet probe 200 Hz was chosen. The high frequency noise increase with burning (Figure 6) is due to the flow discharge velocity, and is not true combustion noise. The levels in the 500 and 200 Hz frequency bands were used for the noise model formulation studies.

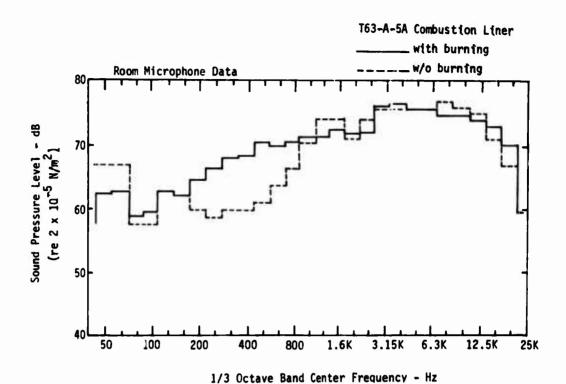


Fig . . . Comparison of Sound Spectra at 40% Power With and Without Burning for the Room Microphone.

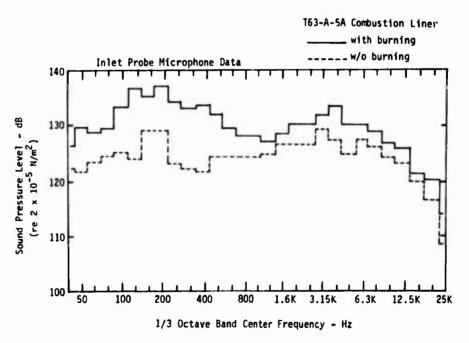


Figure 6. Comparison of Sound Spectra at 25% Power With and Without Burning for the Probe Microphone.

A general relationship of noise increase with power setting is observable in the data for both the room microphone and inlet duct probe microphone (Figures 7 and 8). The outlier points were examined to verify their validity. No explanation of the departure of outlier levels from the general data trend (in terms of combustor design and performance) was found. It is possible to compare the general data t end of Figure 7 with the noise model of Ho and Tedrick (2) (which is discussed in the following section) by restructuring the Ho and Tedrick equation to include the parameters known in this study. The result of the comparison is presented in Figure 9. The mean sound pressure level and standard deviation were calculated for the data points (room microphone #2) at each power setting. The Ho and Tedrick noise factor, F, was calculated from cycle parameters at each of the six power settings, and 20 \log_{10} F + C follows the straight line in the figure. (The constant C was chosen to adjust the level of the model to the T63 rig data at 100% power. Therefore, only the slope is being compared.) The data fits this model quite well.

Combustor Noise Model

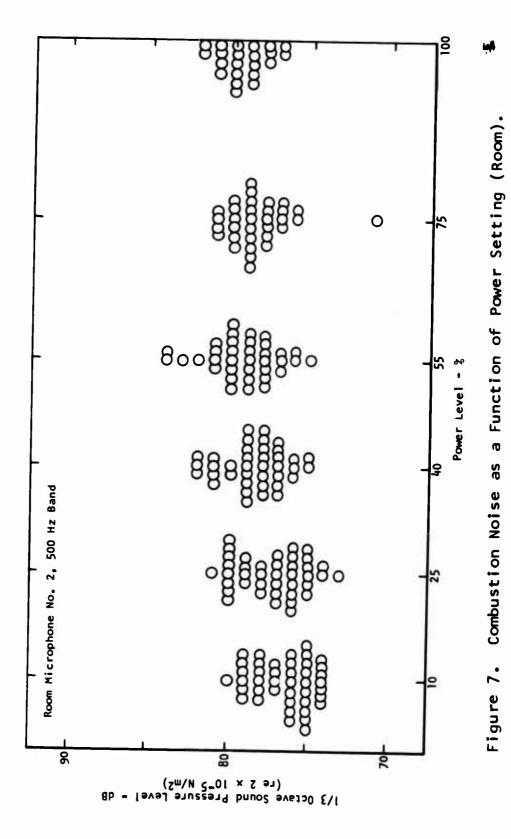
2

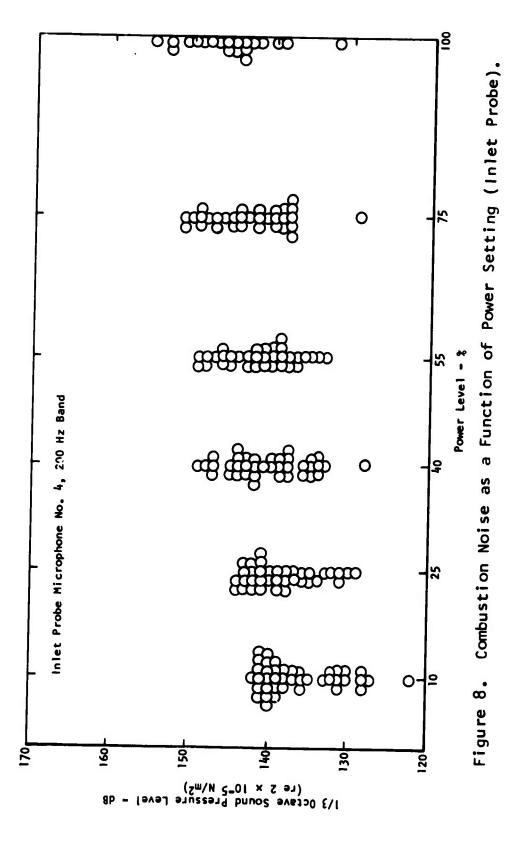
Literature Review

Any practical combustor contains both flow noise and combustion noise sources. Combustion may cause noise by at least three different mechanisms (3):

Ho, P. N., and Tedrick, R. N., COMBUSTION NOISE PREDICTION TECHNIQUES FOR SMALL GAS TURBINE ENGINES, International Conference on Noise Control Engineering, Washington, D.C., 1972, pp. 507-512.

⁽³⁾ Strahle, W. C., A REVIEW OF COMBUSTION GENERATED NOISE, AIAA Aero-Acoustics Conference, Seattle, Washington, 1973, AIAA Paper No. 73-1023.





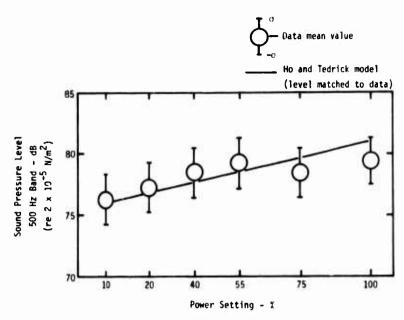


Figure 9. Comparison of Combustor Rig Noise Data (Room) With Ho and Tedrick Model.

- Turbulence interaction with reaction (direct combustion noise)
- Combustion process causing an alteration of velocity in a combustor (indirect combustion noise)
- Convection of hot spots through a region of mean velocity gradient (entropy noise)

Many combustor designs have been investigated as a means of optimizing either size, performance, or noise. Jamieson $^{(4)}$ experimented with a multiple port baffle system in order to

⁽⁴⁾ Jamieson, J. B., PREMIXED PRIMARY ZONE STUDIES USING A MULTIPLE PORT BAFFLE, Cranfield International Propulsion Symposium, The College of Aeronautics, Cranfield, Bedford, England, 1969.

create a large number of small scale recirculation zones. In this way, an increase in combustor size is reflected only as a diameter increase, with no change in length. While the sizing principle was shown to be feasible, a high noise level was encountered which was unacceptable, although further chamber profile de relopment might have alleviated the problem. Giammar and Putnam⁽⁵⁾ examined the combustion roar data from two burner rigs: (1) two impinging fuel jets, and (2) eight almost impinging fuel jets. The effect on noise of firing rate, diameter, spacing, and orientation of the fuel jets was considered. Results showed that noise output increased rapidly with increase in fuel jet spacing and demonstrated a decided break in the rate of increase when the ratio of fuel jet spacing to diameter became large. The most promising design concept for the reduction of combustor noise was reported by Schwartz, (6) who found that the introduction of swirling flow in a combustor accelerates the mixing and combustion processes, increases the flame stability relative to that without swirl, and decreases the flame length and noise levels. Swirl flow has also been shown to reduce exhaust emissions.

The method developed by Abdelhamid, Harrje, and Plett⁽⁷⁾ relates the combustion chamber pressure fluctuations to the

⁽⁵⁾ Giammer, R. D., and Putnam, A. A., COMBUSTION ROAR OF TURBULENT DIFFUSION FLAMES, ASME Paper No. 69 WA/FV-3, 1969.

⁽⁶⁾ Schwartz, I. R., EFFECTS OF ROTATING FLOWS ON COMBUSTION AND JET NOISE, AIAA Paper No. 72-645, June 1972.

⁽⁷⁾ Abdelhamid, D. T., et.al., NOISE CHARACTERISTICS OF COMBUSTION AUGMENTED HIGH-SPEED JETS, AIAA 11th Aerospace Sciences Meeting, Washington, D.C., 1973, AIAA Paper No. 73-189.

noise in the far-field using airflow, initial combustor velocity, and nozzle radius as the important combustor parameters. Since this method relies on measuring pressure fluctuations inside a combustor, it alone is not applicable as a technique for predicting combustion noise. Smith and Kilham concluded that the generated combustor power level is proportional to flow velocity (U), laminar combustion velocity (U_b , flame speed), and burner diameter (D):

$$P = \frac{\rho}{\rho} U^3 D^2 (U/c) (U_b/U)^2 = \frac{\rho}{c} (UDU_b)^2$$

From this it can be seen that combustor noise is proportional to U^2 , D^2 , and U_b^2 . No data was presented to give a practical verification to this equation. Shivashankara, Strahle, and Handley⁽⁹⁾ combined their data with the data of Reference 8 and generated the following regression equation from radiated power level:

$$P = 4.89 \times 10^{-5} U^{2.68} D^{2.84} U_b^{1.35} F_m^{.41}$$

where F_m = fuel mass fraction. Contrary to Reference 8, Shivashankara, et.al., found that the power level is approximately proportional to $(UD)^{\binom{3}{3}}$. Correlation with the base data was good, which is to be expected. Further attempts to correlate this equation with independently arrived at combustion data are necessary before its accuracy can be truly evaluated.

⁽⁸⁾ Smith, T. J. B., and Kilham, J. K., NOISE GENERATION BY OPEN TURBULENT FLAMES, J. Acoust. Soc. Amer., Vol. 35, p. 715, 1963.

⁽⁹⁾ Shivashankara, B. N., et.al., COMBUSTION NOISE RADIATION BY OPEN TURBULENT FLAMES, AIAA Aero-Acoustics Conference, Seattle, Washington, 1973, AIAA Paper No. 73-1025.

Ho and Tedrick⁽²⁾ utilized the Buckingham π -Theorem to dimensionally derive a noise factor, F, for their attempts at predicting combustion noise. The result of their analysis indicates that two equations are required to predict the acoustical power level generated by a given design:

PWL = $40 \log_{10} F + 23$ (Engine Combustion)

PWL = $20 \log_{10} F + 81$ (Rig Combustion)

where $F = (T_4 - T_3) (V_d D_e)^{\frac{1}{2}} (1 + f) (P_4 / T_4)^{\frac{1}{2}}$

T₂ = Combustor inlet temperature

 T_{L} = Combustor discharge temperature

 P_{L} = Combustor discharge pressure

 V_d = Combustor discharge velocity

D_e = Equivalent discharge diameter

f = Fuel/air ratio

It is possible to restructure the equation for the noise factor to show that F is a function of the temperature rise across the combustor, the mass flow from the combustor discharge, and the combustor diameter. The term (1 + f) can be ignored since for all practical purposes it is unity. This does not eliminate fuel/air ratio from the equation since the temperature rise across the combustor is a function of f.

Plett, et.al., (10) take an analytical approach to combustor noise calculation and derive a wave equation in terms of

Plett, E. G., et.al., RESEARCH ON NOISE GENERATED BY DUCTED AIR-FUEL COMBUSTION SYSTEMS, ONR Contract NO0014-67-A-0151-0029, Department of Aerospace and Mechanical Sciences, Princeton University, March 1973.

heat release rate, pressure, temperature, velocity and area. Solution of this equation requires that the flame structure be prescribed and the nature of the fluctuation in the total heat production due to turbulence be known. Although no attempt was made to find an exact solution to this wave equation, a one-dimensional approximation indicates that the sound pressure level of the radiated wave is proportional to the intensity of the turbulence. The proportionality factor is a function of the rate of total heat production in the reaction zone, the Mach number, and the frequency of the turbulent fluctuation. The most important nondimensional parameter is the ratio of the rate of chemical energy release to the typical convective energy.

Strahle⁽¹¹⁾ presents analytical results which prove that regardless of the turbulence structure, the far-field sound pressure is directly proportional to the first Eulerian time derivative of the chemical reaction rate integrated over the reacting volume. For sound wavelengths sufficiently large compared with the integral scale of turbulence, scaling rules for the combustion noise output have been generated for three models of the turbulent flame:

- 1. wrinkled laminar flame
- 2. slow reaction case
- 3. fast reaction case

Strahle, W. C., SOME RESULTS IN COMBUSTION GENERATED NOISE, AIAA Paper No. 72-198, AIAA 10th Aerospace Sciences Meeting, San Diego, California, January 1972.

These results, valid only for fuel-lean premixed flames, explain the observed scaling rules on an order of magnitude basis. Combustion parameters included in this analysis are:

steady-state density ahead of flame
steady-state speed of sound ahead of flame
fuel mass fraction
relative turbulence intensity
flow velocity
laminar flame speed
"eddy" size
burner diameter
steady-state thermal diffusivity of cold gas

Strahle concludes that there is a need for the determination of the relationship between the integral scale of turbulence and the physical and chemical variables.

Two contradictory opinions concerning the location of the peak frequency for combustion noise are contained in the literature. Smith and Kilham⁽⁸⁾ are of the opinion that the peak frequency can be expressed in the form of a Strouhal number relating exit diameter, flow, combustion velocity, and frequency, although this relationship is not presented. Shivashankara, et.al.,⁽⁹⁾ feel that combustion noise does not correlate well with Strouhal type scaling and have used a regression analysis to get:

$$f_p = 11.83 \text{ U}^{19} \text{U}_d^{.53} \text{D}^{-.08} \text{F}_m^{-.69}$$

Unfortunately, due to the background noise levels encountered, the data being analyzed in this report does not lend itself to the investigation of combustor noise spectrum shaping.

Model Formulation

The data taken during the rig tests were analyzed in an attempt to generate an empirical combustor noise prediction model. A stepwise multiple linear regression analysis of the combustor data was performed using the Detroit Diesel Allison computer program OSBB38. This program allows the user to completely define his problem as to the number of variables, number of data points (within an upper limit), the format used to input the data, and any of several transformations which may be applied to the data.

The program reads a set of control variables, a set of alteration cards (which may be null), and finally a set of data points. The transformations (addition, subtraction, multiplication, etc.) specified by the alteration cards are then applied to each data point to generate the specified model. This model is then fed into a stepwise multiple linear regression routine which minimizes the error in the sense of least squares to obtain the regression equation.

A significance test using the F-distribution with 1 and N-K-1 degrees of freedom is provided to allow the program to select only those variables among the ones provided which significantly reduce the least square error, where N is the number of data points and K is the number of independent variables. However, this value for F must be read in, as the F-distribution is rather large to build into the program. Also, providing this parameter as input allows the user to force all variables which are linearly independent to within a prescribed calculable precision into the regression equation.

The regression equation along with the observed and calculated values of the dependent variable as well as the actual and percentage differences between the two values are printed as output. The resulting equation takes the form:

$$SPL = C_1 \log(p_1) + C_2 \log(P_2) + ... + C_1 \log(P_1) + K$$
 (1)

where: C₁ - C_i are numerical coefficients for each term in the equation calculated by OSBB38

P_i - P_i are the independent parameters determined to give the best data fit

K is a numerical constant calculated by OSBB38

The acoustic and performance data were divided into two groups. The first and largest is the data used during the initial regression analysis study, referred to as the correlation data. There are 215 data points in this group which cover the range of combustors from 10% to 100% power. A statistical analysis of this sample shows the average SPL measured at microphone 2 to be 78.1 dB with a standard deviation of only 2.9 dB, in spite of the number of combustors in the group and the wide range of power settings.

The second and smallest data group is the data used to evaluate the combustor noise model generated from the correlation data. There are 38 data points in this group representing seven combustors. The average SPL for this data group is 79.9 dB with a standard deviation of 2.1. It should be noted that both data groups are statistically similar and neither group contains a large SPL spread. This makes a definitive correlation difficult to generate.

The correlation parameters which were considered in the regression analysis are:

```
Engine horsepower - HP
Fuel air ratio - f/a
Combustor discharge velocity - V
Fuel preparation length - L_{fp}
Primary zone length - L<sub>DZ</sub>
Intermediate zone length - Liz
Total length - Ltot
Flow split - Fs
Equivalence ratio - e
Emissions
      CO (ppm)
      CaHB
      Smoke number
Efficiency - n
Pressure drop - ΔP/P
Temperature ratio - T_m/T_a
Pattern factor - P<sub>f</sub>
1/3 octave band SPL:
      500 Hz band SPL external to burner - SPL,
      200 Hz band SPL burner inlet duct - SPL,
```

Two other parameters, combustor diameter and laminar flame speed, are desirable to have in the analysis since the literature search indicated that they were included in several other combustor noise models. However, for the combustor data available for this analysis, chese parameters are essentially constant and would not contribute to the correlation.

The data was evaluated in an attempt to achieve three

correlations:

- Emissions Performance
- 2. Noise Emissions
- 3. Noise Performance

The procedure used was to process various combinations of the correlation parameters with OSBB38, then analyze each result with regard to its being a feasible correlation model. The many parameter combinations analyzed are indicated in Table 6. The results of the analyses are discussed below.

Emissions-Perfor ace Correlation

Results of the pression analysis indicated that there is no parameter or combination of parameters that will consistently correlate with the emission levels within ±5%. Therefore, it is concluded that the emission data used in this study does not correlate with the available performance parameters.

Noise-Emission Correlation

An attempt was made to correlate the microphone 2 SPL's with the emission indices. Both the correlation data and the evaluation data groups were analyzed in this manner. The input parameters are shown in Table 6 for runs 49-53 and the resulting correlation equations are indicated in Table 7. The numbers represent the coefficients C_1 - C_i and the constant K (see Equation 1).

It is clear from the table that the only parameter which provides a correlation is NO_{χ} . Although there is an indication of correlation with the other three emission indices, an examination of the constants (K)

TABLE 6. REGRESSION ANALYSIS RUNS

| 1 | OR R | | * * * ********* |
|------------------------|------------------------|-------------|--|
| | PATTERN FACTOR | | |
| | 1, T | | * * ********************************** |
| | 9746 | | א אאאאאאאאא אאאאאאאאאאאאאאאאאאאאאאאאאא |
| | = | | ********** |
| | SMOKE | | |
| | o× O× | | |
| TERS | C3 HB | | |
| PARAMETERS | 8 | | |
| NDEPENDENT CORRELATION | EQUIV. | | × |
| PENDENT | FLOW | | * * * * * * * * * * * * * * * * * * * |
| HOEF | 101 | | X XXXXXXXXXXX |
| | r12 | | ×× |
| | Lp.2 | | ×× |
| | LFP | | ×× |
| | ۸p | E LATI ON | × ×××××××××××××××××××××××××××××××××××× |
| | F/4 | CORR | ж кининининин кининин кинин ки |
| | ī, | PERFORMANCE | *** * |
| | | | Double and a market and a marke |
| | | NOISE | |
| | METER | - | 2-10 2-25 2-25 2-25 2-15 2-15 2-15 2-15 2-15 |
| | DEPENDENT PARAMETER | | |
| | NO. | | ************************************** |

TABLE 6. (CONT.)

| | , | | | | |
|------------------------------------|------------------------|------------------------------|--|------------------------------|----------------------------|
| | PATTERN FACTOR | | | | *** |
| | t T a | | | | *** |
| 1 | 4/4 0 | | | | *** |
| | F | | | | *** |
| | SMOKE | | **** ** * | | |
| ļ | O _X | | **** | | |
| ETERS | 8 ⁴ 6 | | **** * * * | | |
| N PARAM | 8 | | ***** | | |
| INDEPENDENT CORRELATION PARAMETERS | EQUIV. | | | | *** |
| ENDENT CO | FLOW | | | | *** |
| INDEP | LTOT | | | | |
| | | 1 | | | **** |
| | Lp2 | | | | *** |
| | dźŋ | | | ELATION | **** |
| | ٥'n | ATION | | CORRELA | *** |
| | F/A | ORREL | | MANCE | *** |
| | | ON C | | RF OR | |
| | a. I | EMISS ! | | 3 - PE | **** |
| | DEPENDENT PARAMETER | NOISE - EMISSION CORRELATION | MIC. 2-10% H.P. MIC. 4-10% H.P. MIC. 4-10% H.P. MIC. 2-10% H.P. MIC. 2-10% F.P. MIC. 2-10% F.P | EMISSIONS - PERFORMANCE CORR | CO CAMB NO Smooke |
| | No. | | 00000000000000000000000000000000000000 | | 650 62 62 63 |

 $\rm X = Indicates$ which parameters 058838 were given for consideration, not necessarily those in the final equation,

TABLE 7. CORRELATION COEFFICIENTS FOR CORRELATION DATA

| RUN | DEDENDENT | INDEPENDENT PARAMETERS | | | | | | | | |
|-----|------------------------|------------------------|-------------------------------|-----------------|-------|------|--|--|--|--|
| NO. | DEPENDENT PARAMETER | CO | ^C 3 ^H 8 | NO _× | SMOKE | K | | | | |
| 49 | Mic.2-Corr. Data | | | 4.47 | 62 | 71.6 | | | | |
| 50 | п | -1.29 | | | | 81.1 | | | | |
| 51 | 11 | | 55 | | | 78.5 | | | | |
| 52 | П | | | 3.02 | | 73.4 | | | | |
| 53 | 11 | | | | 31 | 78.4 | | | | |

reveals their proximity to the average SPL for the data set (78.1 dB), which indicates no real correlation. The correlation of noise level with NO_X was not surprising since they both tend to increase with power setting.

Table 8 presents the results for the evaluation data (runs 54-58, Table 6).

TABLE 8. CORRELATION COEFFICIENTS FOR EVALUATION DATA

| | | INDEPENDENT PARAMETERS | | | | | | | |
|------------|------------------|------------------------|------|-----------------|-------|------|--|--|--|
| RUN NO. | | | C3H8 | NO _× | SMOKE | K | | | |
| 54 | Mic.2-Eval. Data | | | -2.26 | | 83.4 | | | |
| 55 56 | II | | | | | 79.9 | | | |
| 56 | II. | | .77 | | | 79.9 | | | |
| 57 | II. | | | | | 79.9 | | | |
| 58 | 11 | | | | | 79.6 | | | |

The inconsistency of these results indicates that the evaluation data does not correlate with the emission indices. The fact that the data correlates with NO_X when analyzed collectively in run 54 (note opposite sign from evaluation data set) but shows no correlation when analyzed alone, run 57, is due to the fact that the size of the data sets analyzed for each run varied because not every data point had a measured value for each emission index.

The results of the noise-emission correlation indicate that grouping of the data has a serious effect on the resulting correlation. In other words, there is no consistent trend in all of the data relating SPL to emissions.

Noise-Performance Correlation

The major correlation effort was directed toward the derivation of a noise correlation model based on performance parameters, represented by runs 1-44 in Table 6. There were two dependent variables used in the analyses: the room-measured SPL, Mic. 2; and the duct-measured SPL, Mic. 4. As will be discussed later, Mic. 4 provided poor data correlation and was not used in much of the study.

The initial plan called for the generation of the combustion noise model from the correlation data and the evaluation of that model with the evaluation data. The first step was to subdivide the correlation data into groups by power setting and analyze these data groups to see if they exhibited the same correlation trends, runs 1-6 in Table 6. The OSBB38 results are shown in Table 9.

TABLE 9. POWER GROUPING CORRELATION COEFFICIENTS

| | | Independent Parameters | | | | | | | | |
|------------|------------------------|------------------------|---------------|---------|---------------|--------------------------------|--------|--|--|--|
| Run No. | Dependent Parameter | v _D | Flow Split | η | ΔΡ/Ρ | T _m /T _a | К | | | |
| 1 | Mic. 2-10% H.P. | | | | 3.42 | | 80.47 | | | |
| 2 | Mic. 2-25% H.P. | | 2.68 | | | | 85.81 | | | |
| 3 | Mic. 2-40% H.P. | -94.02 | 3.50 | | 5.47 14.64 | 71.38 | 255.33 | | | |
| 4 | Mic. 2-55% H.P. | | | -423.83 | 5.15 | | 84.68 | | | |
| 5 | Mic. 2-75% H.P. | | 3.16 | -737.78 | 3.25 | | 83.60 | | | |
| 6 | Mic. 2-100% H.P. | | 5.67 | -516.27 | 14.67 | | 101.46 | | | |

The following conclusions can be drawn from Table 9.

- 1. No single set of parameters correlates all data groups. Only one, $\Delta P/P$, appears in all correlations.
- 2. In four cases, 1, 2, 4 and 5, the correlation is essentially independent of the performance parameters. This is true since K for these cases is nearly equal to the average SPL for each group.
- 3. Run 3 contained outlier data points which resulted in a correlation inconsistent with the others. Subsequent examination of this data indicated that these outlier points were the result of incorrectly recorded noise levels. Due to the results of the other correlations in this group, no attempt was made to rerun correlation 3.

Based on these results, it was decided to direct future effort to the whole correlation data set. Runs 16-18, Table 6 were made and analyzed with the most promising

correlation resulting from the parameters of run 16. It was then decided to use these same parameters and investigate to see if combustor type has any appreciable effect on the correlations. These runs are represented by numbers 19-24. The combustors were divided into the following groupings:

- 1. Prechamber Conventional
- 2. Wall Film Cooling Other
- 3. Axial Flow Swirl Flow

These results are shown in Table 10.

TABLE 10. COMBUSTOR CATEGORIZATION CORRELATION COEFFICIENTS

| Run No. | Dependent Parameter | Independent Parameters | | | | | | | | | | | |
|----------------------|---|-------------------------|----------------|---------------------------------|-------------------------------|-----------------|----------------------|--------------------------------|-------------------|--------------------------------------|--|--|--|
| | | f/a | V _D | LŢ | Flow Split | η | ΔΡ/Ρ | T _m /T _a | Pattern Factor | K | | | |
| 16 19 20 | All Hic. 2 Data Prechamber Conventional | 12.44 16.76 13.78 | 3.59 | 4.7 | 3.53 4.46 | 11.43 | 3.96 | -15.64 | | 102.78 107.12 110.86 | | | |
| 21 22 23 24 | Wall Film Other Axial Swirl | 19.14 13.88 16.58 | 2,55 3,81 | -92.04 3.73 4.96 -9.10 | 3.76 2.97 -6.10 3.76 | -96.57 13.61 | 7.06 14.08 3.7 | -43.10 | -1.34 | 235.95 106.38 113.14 116.17 | | | |

These conclusions can be drawn from the table:

 The correlation coefficients for the parameters f/a, L_T, F_s, and ΔP/P are, in general, similar in magnitude and sign. The exceptions to this (most notably the wall film correlation) are again due to the occurrence of outlier points in these data groups. 2. Not enough evidence is available in the above study to warrant the evaluation of any correlation except 16.

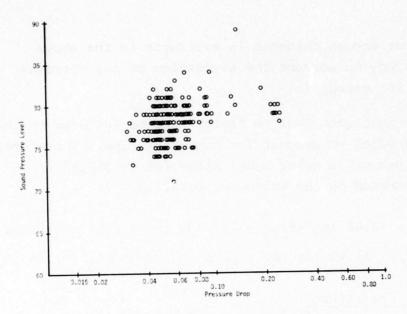
It is concluded that no factor need be included in the noise model to account for combustor type. Therefore, the combustion noise model generated by OSBB38 is represented by the following equation:

$$SPL_2 = 12.44 \log (f/a) + 4.7 \log (L) + 3.53 \log (flow split) + 11.43 \log (\eta) + 3.96 \log (\Delta P/P) + 102.78$$
 (2)

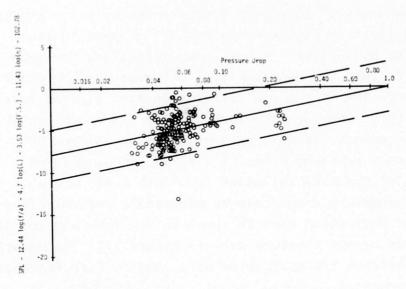
Model Evaluation

An extensive evaluation of Equation 2 was undertaken. correlation data was plotted in raw form and normalized form for each parameter. Each plot contains the solution to the normalized equation (solid line) and + 3 dB band (dashed lines). The evaluation data was also normalized for each parameter to test the applicability of Equation 2 to other Figure 10a is the raw correlation data plotted versus pressure drop. The raw data spread, with the exception of two outlier points, is within 13 dB. The normalized SPL plotted versus pressure drop, Figure 10b, shows a large percentage of the data collapsed to within 6 dB, and a sufficient pressure drop range to accurately determine the slope. The evaluation data is shown in raw form and normalized form plotted versus pressure drop in Figure 11. The equation does not collapse the evaluation data, and in fact increases the data spread.

The other performance parameters in the correlation model have been evaluated in the same manner as discussed above.

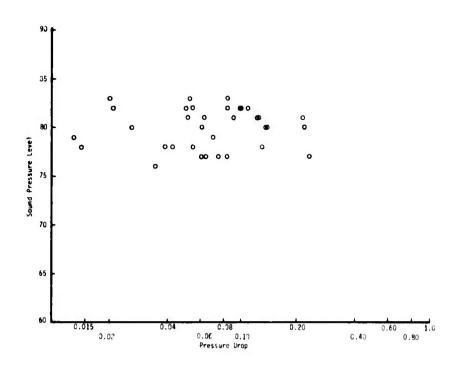


a) Raw Correlation Data Set

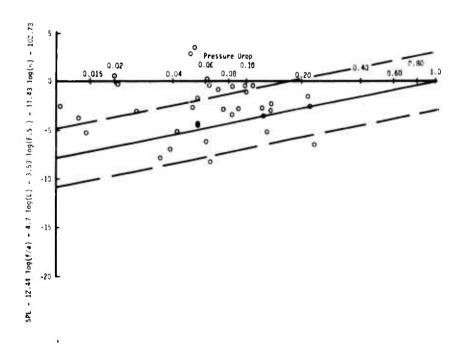


b) Normalized Correlation Data Set

Figure 10. Microphone 2, Pressure Drop Normalization of Correlation Data.



a) Raw Evaluation Data Set



b) Normalized Evaluation Data Set

Figure 11. Microphone 2, Pressure Drop Normalization of Evaluation Data.

Figure 12 is for combustor length; Figure 13 is for primary zone flow split; Figure 14 is for fuel/air; and Figure 15 is for efficiency. The results as discussed for pressure drop also hold true for length, flow split, and fuel/air. The efficiency parameter appears to be an unwise choice for use in the correlation since the data spread along the efficiency axis is insufficient to justify the slope assigned to it. Therefore, the same parameters, with the exception of efficiency, have been run through the regression analysis (run 27, Table 6) with the following results:

$$SPL_2 = 12.98 \log (f/a) + 4.64 \log (L_T) - 1.71 \log (Equiv. Ratio) + 4.02 \log (\Delta P/P) + 104.95$$
 (3)

Since equivalence ratio =
$$\frac{(f/a)}{(f/a)_{stoichiometric}}$$
. flow split

and - 1.71 log (Equiv. Ratio) = 1.71 log
$$(f/a)_{stoi}$$

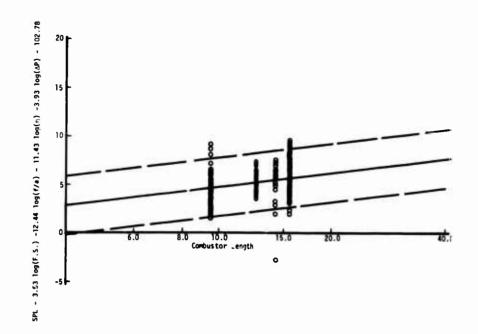
+ 1.71 log (flow split) - 1.71 log (f/a) (4)

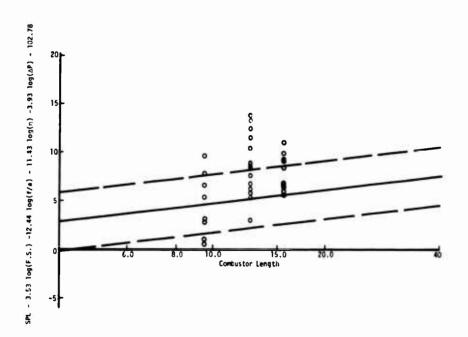
$$(f/a)_{stoi} = .0625 \tag{5}$$

Then
$$SPL_2 = 11.27 \log (f/a) + 4.64 \log (L_T) + 1.71 \log(flow split) + 4.02 \log (\Delta P/P) + 102.89$$
 (6)

The resulting Equation 6 is nearly identical to Equation 2, which was evaluated with the exception that the efficiency term is eliminated. Equation 6 should now replace Equation 2 as the noise model.

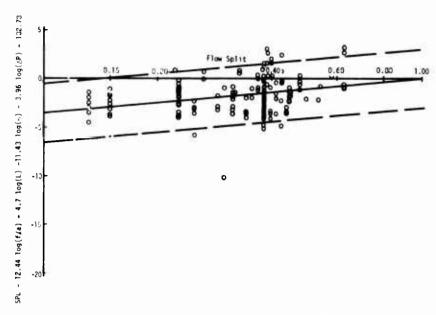
In all cases, the evaluation data does not collapse well when normalized. A regression analysis was performed on



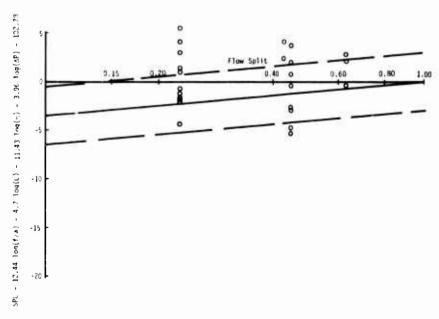


b) Evaluation Data Set

Figure 12. Microphone 2, Combustor Length Normalization.

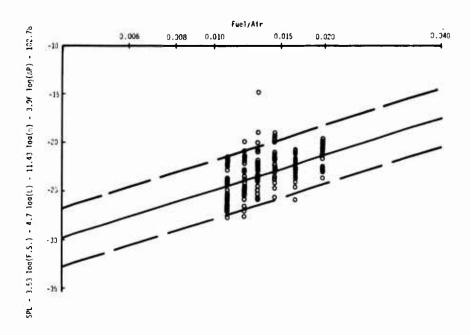


a) Correlation Data Set

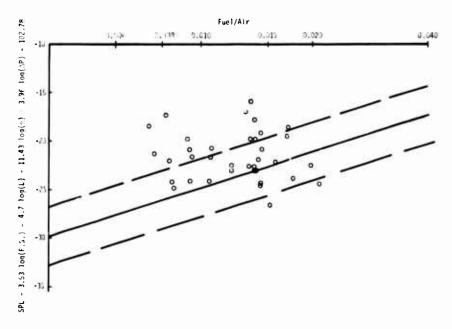


b) Evaluation Data Set

Figure 13. Microphone 2, Flow Split Normalization.

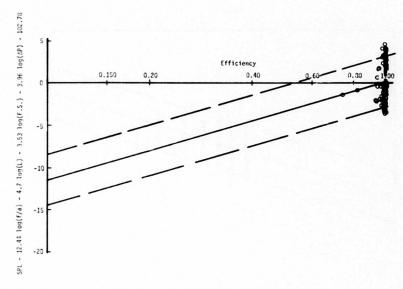


a) Correlation Data Set

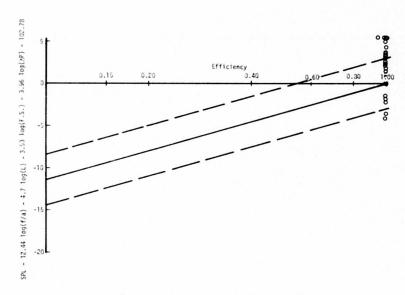


b) Evaluation Data Set

Figure 14. Microphone 2, Fuel/Air Normalization.



a) Correlation Data Set



b) Evaluation Data Set

Figure 15. Microphone 2, Efficiency Normalization.

this data to see what parameters control the evaluation data trends. This was done in a manner similar to the noise-emission correlation, that is, by examining the parameters collectively and individually (runs 28-36, Table 6). The results are shown in Table 11. Also shown in the table for easy comparison is the result for the correlation data, run 27.

TABLE 11. NOISE-PERFORMANCE CORRELATION COEFFICIENTS

| | | INDEPENDENT PARAMETERS | | | | | |
|------------|------------------------|------------------------|----------------|-----------------|--------------|-------------------|-------|
| RUN NO. | DEPENDENT PARAMETER | f/a | L _T | EQUIV. RATIO | Δ P/P | PATTERN FACTOR | K |
| 27 | Mic.2-Corr.Data | 12.98 | 4.64 | -1.71 | 4.02 | CO | 104.9 |
| 28 | Mic.2-Eval.Data | -2.91 | 14.19 | | |) | 58.8 |
| 29 | " | -5.99 | | | | | 68.5 |
| 30 | u | | | | | | 79.9 |
| 31 | н | | 15.68 | | 2 | Î | 62.7 |
| 32 | 11 | r) Ci | | | | | 79.9 |
| 33 | н | | | -1.58 | | | 79.5 |
| 34 | 11 | | | | | | 79.9 |
| 35 | ū | | | | | | 79.9 |
| 36 | П | | | | | 2.08 | 81.0 |

It is obvious from the above results that the evaluation data correlates only with f/a and L_{T} , with the sign on the f/a term being opposite that for the f/a term in the equation for the correlation data. For most analyses presented above, the simple equation

$$SPL_2 = K \tag{7}$$

where K = 79.9 dB, the average SPL for the data set is sufficient to provide a good data correlation for the

evaluation data. The resulting conclusion is that, with the exception of length, none of the performance parameters used in this study are able to tie the two data groups together. Although derived from the same series of combustor tests, the two groups of data tend to exhibit distinctive noiseperformance trends.

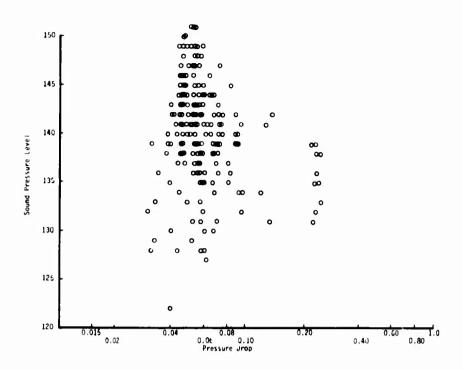
The data as measured inside the duct with microphone 4 does not exhibit any tendency to collapse with any correlation model. The model that OSBB38 generated is:

SPL = 41.59
$$\log (f/a) + 7.95 \log (V_D) - 110.28 \log (\eta)$$

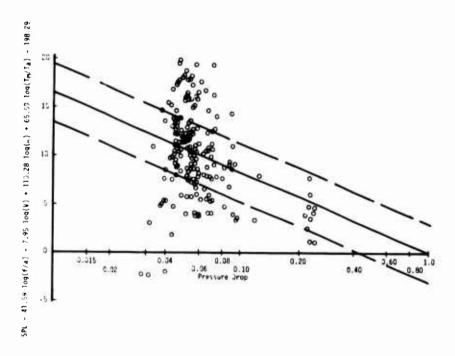
- 8.23 $\log (\Delta P/P) - 65.59 \log (T_m/T_a) + 198.29$ (8)

Plotting the raw data versus pressure drop, Figure 16 shows a large data spread, approximately 25 dB. Normalization of this data versus pressure drop produced no real appreciable data collapse (Figure 16b). This indicates that none of the available parameters carries enough weight to provide a conclusive correlation. The same conclusion holds true when this model is applied to the evaluation data, Figure 17.

During the analysis of the combustor data, certain facts became apparent. One of the more important realizations was that regrouping the data had the effect of changing the correlation. To achieve meaningful results from any regression analysis, one of the variables should not be data organization. Therefore, it must be concluded that either the spread of the SPL data was insufficient to provide any correlation, or the measured performance parameters were not the ones needed to provide correlation. Even though Equation 2 was generated and evaluated and shown to collapse the correlation data

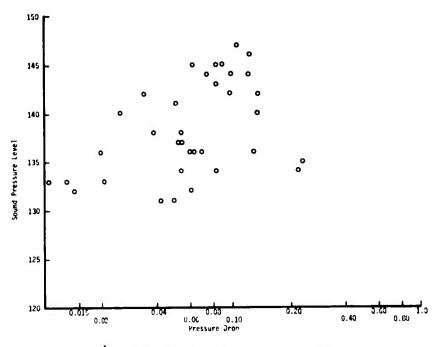


a) Raw Correlation Data Set

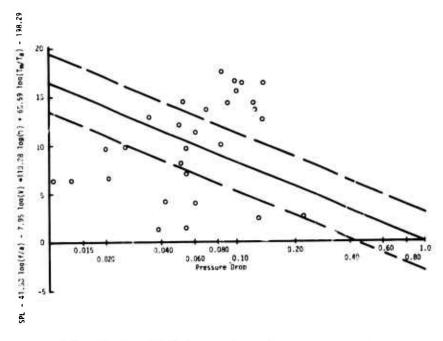


b) Normalized Correlation Data Set

Figure 16. Microphone 4, Pressure Drop Normalization of Correlation Data.



a) Raw Evaluation Data Set



b) Normalized Evaluation Data Set

Figure 17. Microphone 4, Pressure Drop Normalization of Evaluation Data.

fairly well (as it should), the confidence factor that must be assigned to this equation (and likewise Equation 6) must be considered small since it failed to collapse the evaluation data.

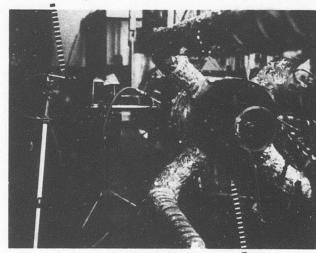
EFFECT OF FUEL INJECTION MODE ON NOISE AND EMISSIONS

For the preceding study of burner noise as related to design and performance, the range of mass emissions was approximately 2:1 for the large number of geometric variations tested. Also, the changes in noise level were not very great, as has been shown. Since the primary zone of the combustor is the major region of combustion activity, and thus combustion noise, changes in burning in this region should have an effect on noise. In order to achieve a larger variation of noise and emissions, the primary zone combustion was varied within a fixed burner geometry (similar to the Rich Premix/Swirl design, configuration 37) by variation of the fuel injection method. Two fuel modes were tested: pressure atomized (droplet) and wall film (vapor).

Experimental Procedure

Burner rig tests, similar to those described earlier for the 59 T63-type configurations, were conducted with a combustor designated Concept XVII Mod 0, which is similar to the Rich Premix/Swirl #9 design. Two fuel injection modes were employed: air assist atomizer and wall fuel film. Noise data was recorded by a test cell microphone as well as a probe microphone in the burner air inlet passage. The burner rig and microphones are shown in Figures 18 and 19. All data recording instrumentation was the same as for the T63 burner tests. Five operating points were tested for each fuel mode, as shown in Table 12.

Microphone



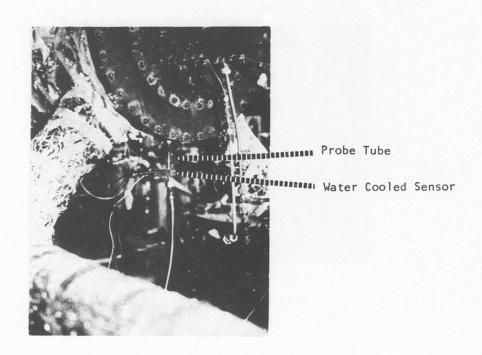
Probe Microphone

Figure 18. Test Cell Arrangement for Noise and Emission Tests of Concept XVII Mod O Burner.

TABLE 12. BURNER OPERATING POINTS

| CYCLE POINT POWER SETTING, % | 3 50 | 5 60 | | 9 80 | 10 85 |
|--|---------|---------|------|---------|----------|
| Airflow, lb/s Burner Inlet Pressure, psia | | 26.8 | 33.5 | 41.7 | 46.3 |
| Overall Fuel-Air Ratio | .0043 | | | .0080 | |
| Burner Inlet Temperature, °F | 1030 | | | 1100 | |
| Burner Outlet Temperature, °F | 1290 | 1385 | 1486 | 1586 | 1646 |

The burner was operated over a range of dilution zone variable geometry settings for each fuel mode. Forty-nine runs were made, resulting in 12 pairs of runs at identical variable geometry settings for both fuel modes.



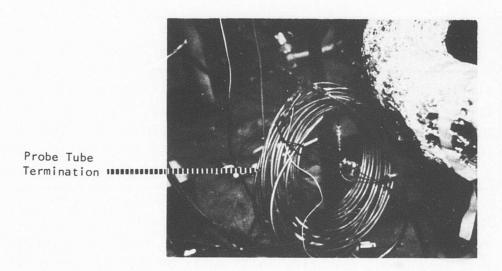


Figure 19. Inlet Probe Microphone.

In addition, several runs were made burning fuel from liquefaction of Utah coal by the COED (Char Oil Energy Development) process (12) which is underwritten by the Institute of Coal, Bureau of Mines. The two alternate fuels tested were designated:

- a) Utah Light a light fraction (approximately 20% of the total liquefaction)
- b) 20/80 Utah Crude Mixture the total crude oil from coal by the COED process

These alternate fuel tests were conducted for the purpose of further modifying the primary zone combustion process and observing the influence on noise.

Fuel Mode Test Results

This burner rig installation was somewhat different from that employed in the T63 combustor test series. The burner configuration was significantly different from a noise measurement standpoint. A heavy case enclosed the burner, so that the case transfer function was quite different from the T63, thus influencing the noise levels measured by the test cell microphone. Also the burner air inlet ducting scheme was not the same as for the T63, influencing the inlet probe microphone levels. For these reasons, the fuel mode noise data cannot be compared with the T63 burner data, but must be considered as a separate data set.

⁽¹²⁾ Strom, A. H., and Eddinger, R. T., COED PLANT FOR COAL CONVERSION, Chemical Engineering Progress, Vol. 67, No. 3, March 1971, pp. 75-80.

Noise data was analyzed in one-third octave frequency bands and is presented in Appendix II. Examination of the noise data for the test cell microphone shows that the noise level measured remained approximately constant throughout the test, indicating that combustion noise was attenuated greatly through the burner case, and/or this was a quiet burner. The room microphone levels measured appear to be due to other noise sources in the test facility. For these reasons, the inlet probe microphone data was examined for noise-emission trends. The measured mass emissions are presented in Table 13.

By comparison of noise spectra with and without burning (Figure 20), the combustion noise for this larger volume burner was determined to be in the frequency range of 50 to 160 Hz. A wide range of emissions was achieved, as expected, between wall film and droplet combustion (Table 13). For fixed geometry and power setting, fuel mode change altered NO, by a factor of 8:1 to as much as 50:1. Variations in CO were not as great. Noise and emissions relationships for both fuel modes are shown in Figure 21 for $N0_x$ and Figure 22 for CO. There does not appear to be a significant change in noise level with fuel mode except at low power settings, as shown in Figure 23. The fuel atomization achieved with the air assist injector was estimated to be very fine (less than 60 microns), and invariant over the entire operating range. Although a wide range of emissions was achieved, it appears that the droplet size was so fine that little noise change was accomplished, comparing the two fuel modes. Furthermore, it appears that the background noise level (from test facility sources other than combustion) was a limiting factor in the measurement of low level combustion noise. This "noise floor", as determined by the

TABLE 13. FUEL MODE TEST DATA SUMMARY

a) Standard Fuel (EMS 66B)

| Reading No. | Fuel Mode | Power Seti Cycle Pt. | ing % | Dilution Zone Variable Geom. (inches closed) | Mic. #2 Relative SPL, dB | Mass Emissions, ppm CO NO _X | | |
|--|----------------------------------|--------------------------------------|----------------------------------|--|---------------------------------|---|--|--|
| 2114 40 44 01 | No Fuel Baseline | 3 7 9 | 50 70 80 85 | .4(.60 .80 .70 | 0 4 5 6 | 0 0 0 | 0 0 0 | |
| 2115 16 17 18 19 | Wall Film | 3 3 3 3 3 | 50 50 50 50 | .40 .45 .50 .55 | 4 3 2 2 2 6 6 | 7.77 5.97 5.97 10.05 20.10 | 6.10 3.56 3.05 2.55 1.53 | |
| 21 22 23 24 25 26 | Air Assist Atomizer | 3 3 3 3 3 | 50 50 50 50 50 50 | .40 .50 .60 .70 .80 | 6 6 6 6 6 | 18.14 19.12 25.10 65.18 116.15 214.13 | 25.81 23.82 21.29 18.75 17.48 13.81 | |
| 2127 28 29 30 31 32 | Wall Film ' | 5 5 5 5 5 5 5 5 | 60 60 60 60 60 | .40 .60 .70 .75 .80 | 3 2 3 3 3 | 11.45 7.77 11.45 18.14 42.78 49.18 | 14.46 2.86 1.33 1.03 0.72 23.87 | |
| 33 34 2135 36 37 38 | Wall Film | 5 5 7 7 7 | 50 60 70 70 70 70 | .40 .95 .60 .70 .80 | 5 4 5 4 3 | 25.10 123.71 9.59 8.68 12.38 26.11 | 42.09 18.52 15.25 5.71 2.56 1.13 | |
| 39 41 42 43 | Air Assist Atomizer | 7 7 7 7 | 70 70 70 70 | .95 .60 .95 1.05 | 4 7 7 4 | 59.86 26.11 57.73 95.39 | 0.53 54.53 26.88 24.92 | |
| 2145 46 47 48 49 50 51 | Wall Film Air Assist Atomizer | 9 9 9 9 9 | 80 80 80 80 80 80 | .80 .90 1.00 1.10 .80 1.00 | 7 7 8 8 9 8 7 | 12.85 13.33 21.59 51.31 19.12 30.20 86.76 | 12.75 5.59 2.26 0.91 64.73 43.30 35.87 | |
| 2102 3 4 5 6 7 | Wall Film | 10 10 10 10 10 | 85 85 85 85 85 | 0.95 1.00 1.05 1.10 1.15 | 9 9 9 11 11 | 18.14 18.14 17.17 23.09 27.13 38.55 | 9.97 6.05 4.52 3.08 2.47 2.06 | |
| 8 9 10 11 12 | Air Assist Atomizer | 10 10 10 10 | 85 85 85 85 | 1.25 0.95 1.10 1.25 1.40 | 12 11 11 10 9 | 63.06 16.20 28.15 58.79 116.15 | 1.24 53.87 48.88 40.92 34.98 | |

b) Alternate Fuels (Coal Derivative)

| Reading No. | Fuel Mode | Power Setting Cycle Pt. % | | Dilution Zone Variable Geom. (inches closed) | Mic. #2 Relative SPL, dR | Mass Emissions, ppm CO NO _x | |
|------------------------|---------------------|------------------------------|----------------------|--|--------------------------------|---|----------------------------------|
| 2152 53 54 | Wall Film | 7 7 7 | 70 70 70 | .70 .85 .95 | 4 4 | 11.91 31.24 123.71 | 41.71 33.32 31.84 |
| 2161 63 64 68 | Air Assist Atomizer | 7 7 7 7 | 70 70 70 70 | .70 .95 .60 .70 | 6 7 8 5 | 34.36 66.24 27.13 28.15 | 55.51 49.59 63.48 59.48 |

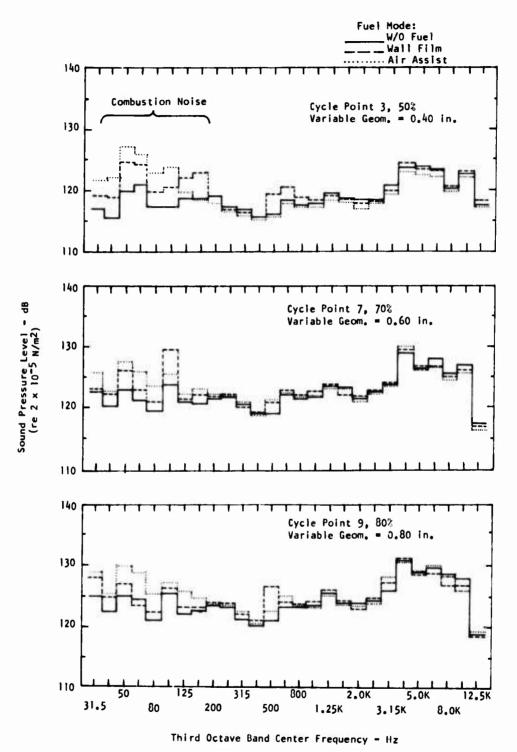


Figure 20. Effect of Fuel Mode on Noise Spectra.

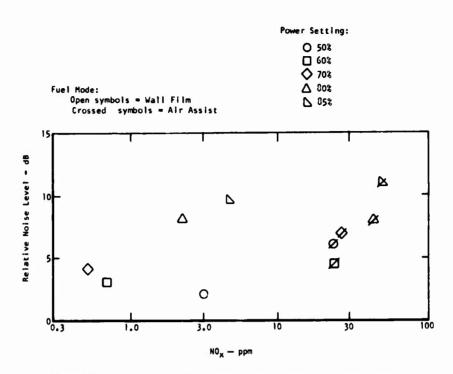


Figure 21. Noise and NO_X Emissions for Two Fuel Modes.

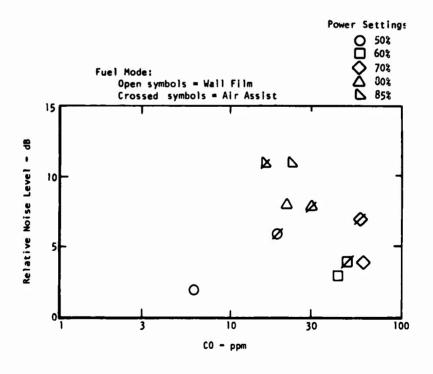


Figure 22. Noise and CO Emissions for Two Fuel Modes.

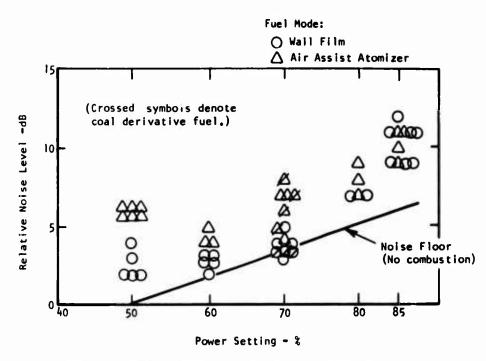


Figure 23. Effect of Power Setting on Combustion Noise.

runs without burning, may have had a limiting effect on the range of noise levels measured.

Noise levels were measured utilizing the coal derivative alternate fuels for both fuel modes at cycle point 7 (Table 13). The limited data obtained is included in Figure 23, and shows no difference between fuel types.

ENGINE TEST OF A LOW-EMISSION COMBUSTOR

The Rich Premix/Swirl combustor (configuration 37) had been identified as a practical low-emission 763 combustor during the performance of a U. S. Army-sponsored low-emission combustor program (1). Under this combustion noise research program, this burner was tested in an engine environment for the purpose of determining its acoustical performance (13). Tests were conducted using a Model 250-C18 Series I engine as the test vehicle. Engine noise measurements were made for both the conventional and Rich Premix/Swirl combustors. Because the engine configuration remained the same except for the combustor, the data provided the direct noise reduction associated with the Rich Premix/Swirl combustor design. Since the modified combustor had demonstrated very low exhaust emissions when tested in the burner rig under the U. S. Army emissions contract, gas measurements were taken to obtain emissions data in an engine environment. The emission measurements also were made with the conventional production combustor for comparative purposes.

Engine Test

A 250-C18 Series I engine was used as the test vehicle in this program. Engine installation, instrumentation, and monitoring conformed to standard practice for T63 engine test. An 8-channel high-speed recorder was used during most of the testing to record engine responses of gas producer

⁽¹³⁾ Semrau, W. R., and Troth, D. L., NOISE AND EMISSIONS TEST OF A RICH PRECHAMBER, SWIRL DOME, EXTENDED LENGTH COMBUSTOR LINER IN A MODEL 250 ENGINE ENVIRONMENT, Research Note RN 74-10, Detroit Diesel Allison Division, GMC, February 1974.

RPM, power turbine RPM, turbine outlet temperature, fuel flow, compressor discharge pressure, and torquemeter output.

Testing was performed at eight engine operating levels - 100%, 90%, 75%, 55%, 40%, 30%, 25%, and 10% of maximum continuous power. The automatic system used to control and monitor engine operation uses turbine outlet temperature (TOT) as the governing parameter. Therefore, the engine was stabilized at the TOT's corresponding to these operational levels. However, because this engine was a 10-year old "workhorse" with over 60 builds, the horsepower output did not meet the model specification. In fact, the variances were quite large, as noted in Table 14.

TABLE 14. OUTPUT HORSEPOWER VARIATION OF THE 250-C18 SERIES I ENGINE

| Operating Level | Model Specification SHP* | Actual SHP* |
|-------------------------|--------------------------|-------------|
| 100% Maximum Continuous | 270 | 215 |
| 75% Maximum Continuous | 203 | 151 |

^{*}Corrected to standard sea level static conditions.

The engine airflow and fuel flow were also lower for this engine.

Rich Premix/Swiri Combustor

A T63-type combustor previously used in a U. S. Army-sponsored low-emission combustor program was selected for testing because of its low mass emissions performance measured during the emission testing in a rig facility. A photograph of the combustor is shown in Figure 24 and a schematic cross-section is seen in Figure 25. The combustor design and rig-



Figure 24. Rich Premix/Swirl Combustor.

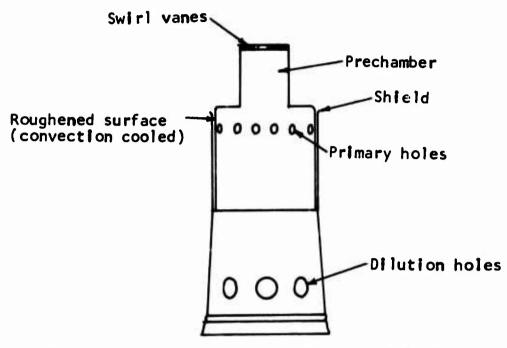


Figure 25. Schematic Cross Section of Rich Premix/Swirl Combustor.

test emissions performance are described in Reference 14.

The Rich Premix/Swirl combustor liner incorporated several features to reduce the exhaust emissions:

o A premix cup or prechamber was used to mix the fuel and air and partially vaporize and react the fuel.

⁽¹⁴⁾ Sherman, W. S., Williams, J. R., Verkamp, F. J., Verdouw, A. J., Troth, D. L., EMISSION PERFORMANCE OF T63 EXTENDED LENGTH-PREMIX CUP/LIQUID FUEL/SWIRL DOME COMBUSTOR LINER (DESIGN NO. 9), Research Note 72-40, Detroit Diesel Allison Division, GMC. May 1972.

- o Fuel rich mixtures in the premix cup minimized any low temperature combustion zones, thus minimizing the CO and CH_X concentrations which could be quenched.
- o Swirl-stabilized primary zone recirculation behind a sudden expansion provided an effective flame holder for primary zone combustion. The intensity of the swirl vortex effectively supplied heat to the incoming fuel air mixtures to improve combustion stability.
- o Convection cooling of the primary zone instead of film cooling avoided the quenching of CO, CH_X , and carbon in the cold air film, thus allowing their oxidation to continue.
- o Extending the combustor overall length 6.00 inches allowed more intermediate zone residence time for the consumption of CO, CH_{X} , and carbon. Reduction of these emissions was obtained for a moderate rise in NO_{X} emissions.
- o Delayed dilution, moving the dilution holes closer to the liner exit, was also used to gain increased intermediate zone residence time.

To accommodate the engine installation, a 6-inch spacer was inserted between the combustion case and gas producer turbine support. Extended length air discharge tubes were also used. The standard fuel nozzle was used.

Noise Measurement and Analysis

T63 engine noise measurements were made for both the baseline and Rich Premix/Swirl combustors. The purpose of these noise tests was to determine what influence the combustor has on the engine noise signature.

The noise measurements were made in an engine test cell shown in Figure 26. The test cell is reverberant — well suited for comparative measurements of sound power for the two burner configurations. Background noise levels from blowers and other test cell equipment were at least 20 dB below the engine levels, across the entire spectrum. The single microphone was located at engine centerline height, 2 feet to the side of the engine centerline, and in line with the burner dome, as shown in Figure 26.

Data were recorded for eight power settings for each combustor. The power settings were governed by turbine outlet temperature (TOT), where the 100% power setting corresponds to TOT equal to that required for maximum continuous power. (As noted previously, the actual horsepower output was somewhat lower than that expected, based on TOT.)

Acoustical instrumentation for data recording and analysis was:

Recording

Microphone, B & K $\frac{1}{2}$ " type $\frac{L}{34}$ Microphone preamplifier, Nagra FET follower type QSPB Tape recorder, Nagra IV-SJ ($7\frac{1}{2}$ ips)

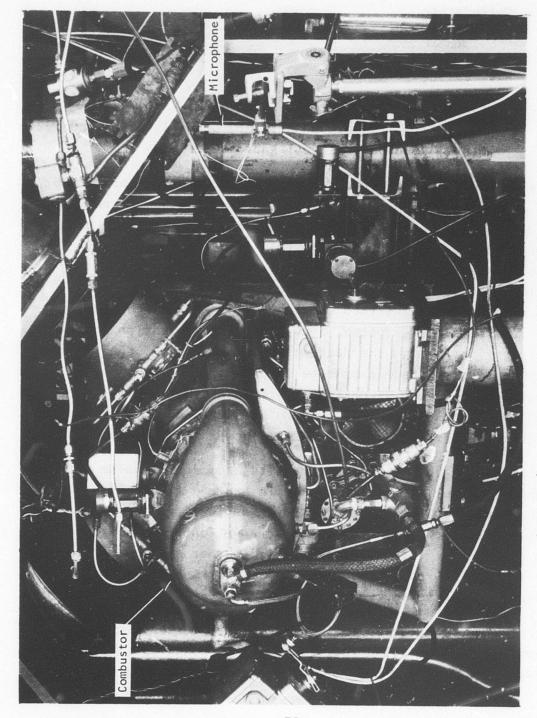


Figure 26. Engine Test Cell General Arrangement.

Calibration

Microphone calibrator, General Radio type 1562A

Data Analysis

Tape recorder, Nagra IV-SJ Real Time 1/3 Octave Analyzer, General Radio type 1921 Level Recorder, General Radio type 1522

The engine noise data recorded for both burners is presented in Figures 27, 28, 29 and 30. The noise levels measured during engine testing are generally about 30 dB higher than noise levels measured on the burner rig. The much higher engine noise levels are the result of the exhaust ducts being open to the test cell, allowing noise from internal sources to propagate into the test cell, whereas the burner rig was completely ducted, thus providing combustion noise attenuation through the duct walls. Therefore, burner rig and engine test data cannot be compared. Also, the engine test cell volume was considerably smaller than the rig test cell, and thus the measured sound pressure levels would be higher, even if the generated sound power levels were equal.

Based on the burner rig test results, combustion noise for the T63 burner is known to occur in a broad frequency band at approximately 500 mz. Engine noise level at 100% power setting is shown for both burners, as a function of frequency, in Figure 31. The Rich Premix/Swirl burner shows 3 dB combustion noise reduction. This reduction is quite broadband, extending out to several kilohertz.

Turbine noise was also influenced by the choice of combustors. Gasifier turbine noise is evident in the sound spectra (Figures 27 through 30) for both burners, occurring in the

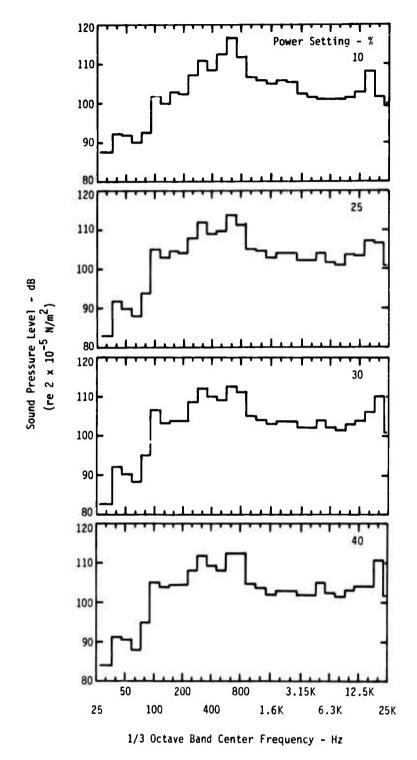


Figure 27. T63 Engine Sound Spectra - Standard Burner at 10, 25, 30, and 40% Power.

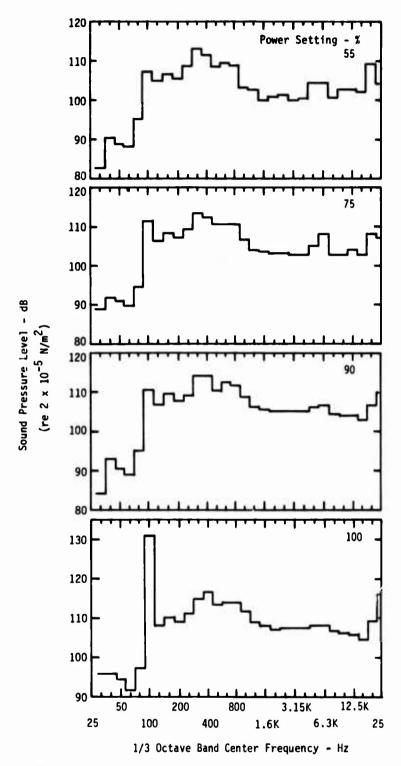


Figure 28. T63 Engine Sound Spectra - Standard Burner at 55, 75, 90, and 100% Power.

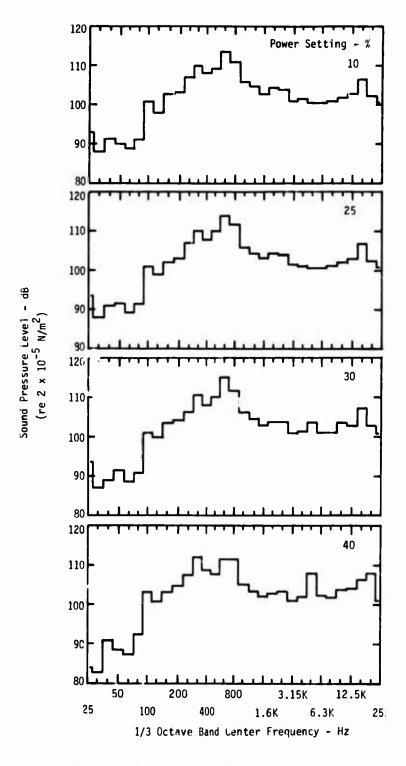


Figure 29. T63 Engine Sound Spectra - Rich Premix/ Swirl Burner at 10, 25, 30 and 40% Power.

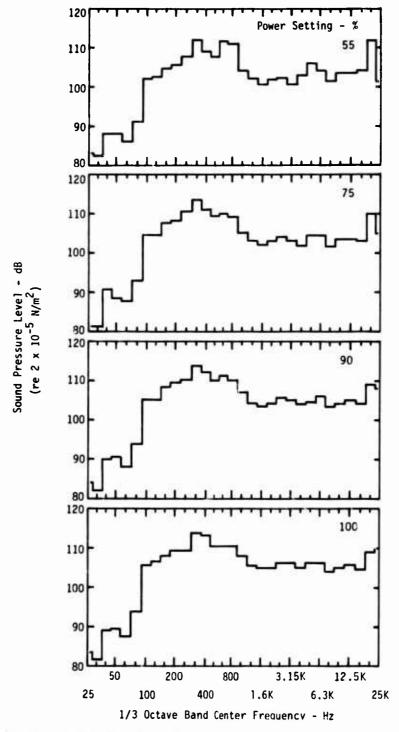


Figure 30. T63 Engine Sound Spectra - Rich Premix/ Swirl Burner at 55, 75, 90 and 100% Power.

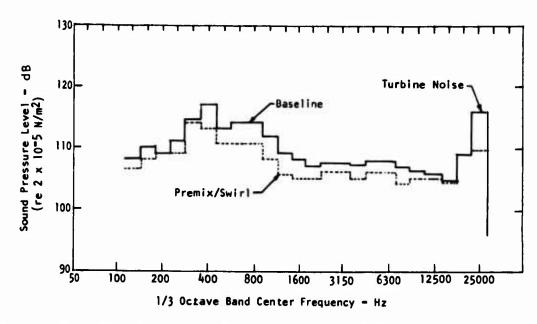


Figure 31. T63 Engine Noise Spectra at 100% Power Setting.

16 to 25 kHz frequency bands. This turbine noise frequency increases with power setting as gasifier turbine speed increases. Turbine noise level associated with both burners is also shown in Figure 31 at the 100% power setting in the 25 kHz frequency band. The Rich Premix/Swirl burner reduced the turbine noise by 5 dB. Apparently, the turbulence level and/or scale out of the burner was reduced (as well as the combustion noise) and therefore less turbine noise was generated.

Exhaust Emissions Testing

During the engine noise testing of the Rich Premix/Swirl combustor, exhaust emissions were also measured. This combustor liner had previously demonstrated significant reductions in exhaust emissions during rig tests, and therefore it was of interest to measure emissions as well as noise during operation in the 250 engine. For comparison, exhaust emissions were also measured when the engine was operated

with the standard production combustor. Based upon turbine exit temperature, the engine exhaust emissions were recorded at 10, 25, 30, 40, 55, 75, 90, and 100% power levels. The fuel injector used was the standard Model 250 dual orifice, pressure atomizing injector.

All of the engine emission test data is presented in Reference 13. An emissions comparison between the two combustors has been made, and is shown in Figures 32, 33, 34 and 35. Special note must be made that the emission data presented in this report are raw data as recorded from the test cells, with the engine operating at reduced power output, as previously discussed. The data has not been corrected to standard conditions. The emissions trends indicated by these data are the same as were observed on the combustor rig tests, but the magnitudes of the concentrations were somewhat different.

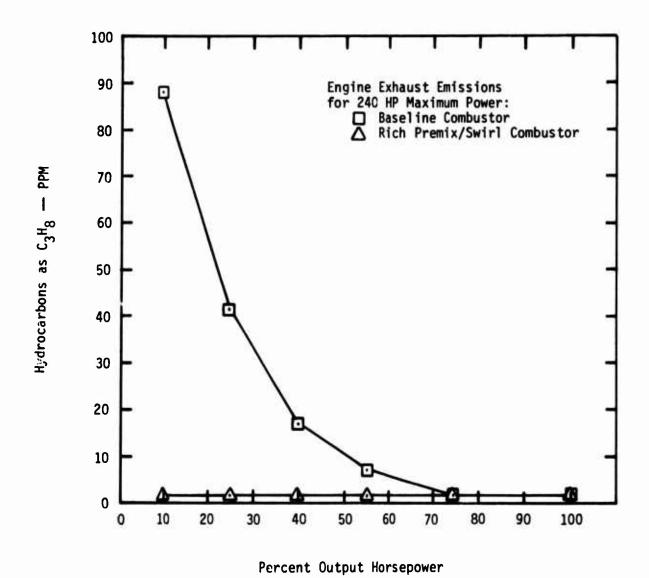


Figure 32. Nonregenerative T63-A-5A Combustor Hydrocarbon Emission Data Comparison.

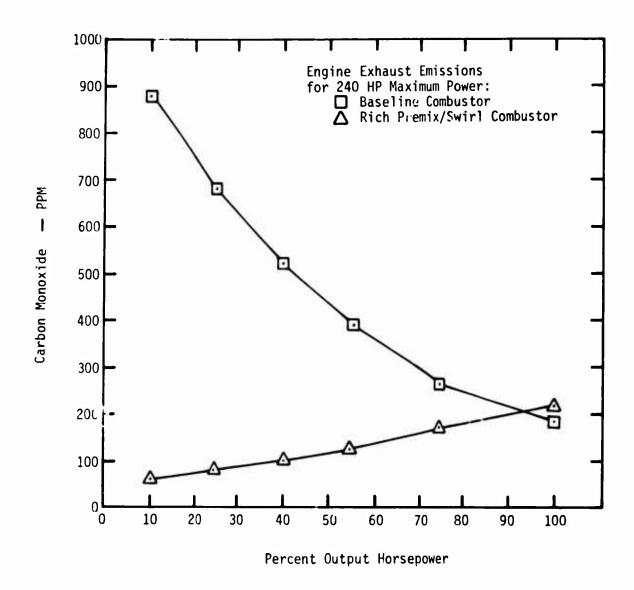


Figure 33. Nonregenerative T63-A-5A Combustor Carbon Monoxide Emission Data Comparison.

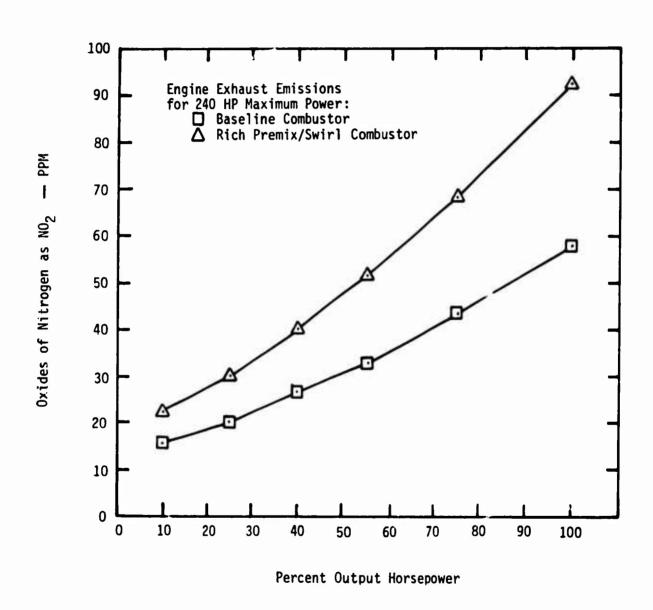


Figure 34. Nonregenerative T63-A-5A Combustor Nitrogen Oxides Emission Data Comparison.

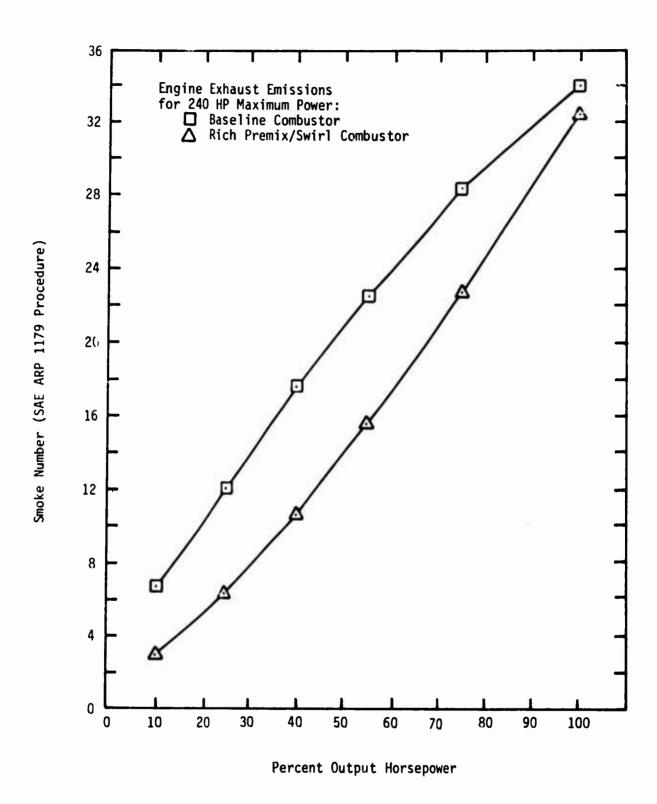


Figure 35. Nonregenerative T63-A-5A Combustor Smoke Data Comparison.

CONCLUSIONS

- 1. Comparisons of spectra obtained during combustor rig operation with and without burning were used to determine the frequency of T63 combustion noise, which was found to occur in approximately the 500 Hz octave band.
- 2. Burner design and performance parameters were correlated with the noise data by means of a computer regression analysis to generate a noise model:

However, the confidence factor that must be assigned to this equation is small, since the equation failed to collapse the evaluation data. Background noise from the test facility apparently obscured the noise influence of other design parameters.

- 3. No relationship between noise and emissions parameters was established.
- 4. No relationship between emissions and performance parameters was established. Results of the regression analysis indicated that there is no performance parameter or combination of parameters that will consistently correlate with the emission levels within ± 5%.
- 5. The effect of fuel mode on combustor noise was discovered to be negligible except for low power settings, where the

- wall film mode provided a small noise reduction. Facility background noise apparently partially masked the measurable noise reduction. The wall film mode provided a large reduction in mass emissions over the entire operating range.
- 6. The engine tests conducted with a low emission burner, designated Rich Premix/Swirl, demonstrated a 3 dB combustion noise reduction as well as a 5 dB turbine noise reduction, compared to a standard T63 combustor.

RECOMMENDATIONS

It is recommended that:

- 1. Experiments directed toward relating combustor noise to mass emissions be continued following facility improvements to provide a more optimum acoustical environment.
- 2. The influence of combustor design on turbine noise be investigated analytically and experimentally. Although the turbine noise reduction demonstrated in the T63 engine is in a frequency range above audible, in larger engines the noise reduction thus achieved would be of benefit.

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APPENDIX I

COMBUSTOR NOISE SPECTRA

Sound pressure level (dB re 2 x 10⁻⁵/Nm²) data, ordered by combustor configuration number and power setting, are presented in this appendix for the 59 burner configurations described in Table 4. Microphone positions 1, 2, and 3 are test cell microphones, and 4 and 5 are inlet and exhaust probes. The combustor power setting entry indicates the percent power. An R following the percent power indicates a regenerative cycle. Combustor power settings are described in Tables 1 and 2. Each configuration is not presented for all cycle points since each configuration was not tested at all cycle points. Columns of zeros indicate no data was recorded at that microphone location for that particular run.

CONFIGURATION 1 T63-A-5A BASELINE POWER SETTING 10 READING NO. 187

| | | MICROPHO | NE POSITION | | |
|--------------|-----|----------|-------------|------|------|
| 1/3 DCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 66. | 64. | 66. | 130. | 135. |
| 63 | 71. | 67. | 69. | 131. | 134. |
| 80 | 64. | 63. | 64. | 131. | 135. |
| 100 | 66. | 65. | 67. | 136. | 138. |
| 125 | 69. | 65. | 69. | 138. | 140. |
| 160 | 70. | 67. | 71. | 135. | 139. |
| 200 | 70. | 68. | 69. | 139. | 140. |
| 250 | 73. | 71. | 74. | 135. | 140. |
| 315 | 75. | 74. | 77. | 134. | 142. |
| 400 | 77. | 74. | 75. | 136. | 141. |
| 500 | 77. | 74. | 76. | 131. | 139. |
| 630 | 75. | 73. | 77. | 132. | 140. |
| 800 | 76. | 77. | 76. | 130. | 139. |
| 1000 | 76. | 76. | 77. | 130. | 139. |
| 1250 | 77. | 76. | 77. | 130. | 139. |
| 1600 | 77. | 74. | 76. | 131. | 140. |
| 2000 | 74. | 72. | 74. | 131. | 138. |
| 2500 | 74. | 73. | 74. | 131. | 136. |
| 3150 | 77. | 74. | 75. | 132. | 133. |
| 4000 | 77. | 75. | 75. | 131. | 131. |
| 5000 | 74. | 72. | 73. | 125. | 129. |
| 6300 | 71. | 76. | 71. | 124. | 125. |
| 8000 | 68. | 65. | 68. | 120. | 121. |
| 10000 | 66. | 65. | 65. | 115. | 116. |
| 12500 | 62. | €2. | 62. | 114. | 114. |
| 16000 | 59. | 59. | 59. | 109. | 112. |
| 20000 | 55. | 54. | 55. | 108. | 111. |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 70. | 72. | 135. | 139. |
| 125 | 73. | 71. | 74. | 141. | 144. |
| 250 | 78. | 76. | 79. | 141. | 146. |
| 500 | 81. | 78. | 81. | 138. | 145. |
| 1000 | 81. | 81. | 81. | 135. | 144. |
| 2000 | 80. | 76. | 80. | 136. | 143. |
| 4000 | 81. | 75. | 79. | 135. | 136. |
| 8000 | 74. | 73. | 73. | 126. | 127. |
| 16000 | 64. | 64. | 64. | 116. | 117. |

CONFIGURATION 1 T63-A-5A BASELINE POWER SETTING 10 READING NO. 170

| | | MICROPHON | E POSITION | | |
|--------------|-----|-----------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 65. | 65. | 65. | 131. | 136. |
| 63 | 68. | 67. | 69. | 129. | 136. |
| 90 | 63. | 63. | 64. | 131. | 137. |
| 100 | 65. | 65. | 66. | 136. | 139. |
| 125 | 67. | 67. | 68. | 138. | 143. |
| 160 | 67. | 66. | 6R. | 136. | 141. |
| 200 | 68. | 68. | 69. | 139. | 141. |
| 250 | 68. | 71. | 71. | 134. | 142. |
| 315 | 72. | 71. | 72. | 134. | 143. |
| 400 | 74. | 73. | 74. | 137. | 142. |
| 500 . | 75. | 74. | 77. | 132. | 141. |
| 630 | 75. | 76. | 78. | 133. | 141. |
| 800 | 76. | 77. | 78. | 130. | 141. |
| 1000 | 77. | 78. | 79. | 131. | 140. |
| 1250 | 78. | 79. | 79. | 130. | 141. |
| 1600 | 77. | 77. | 77. | 131. | 140. |
| 2000 | 75. | 75. | 76. | 132. | 139. |
| 2500 | 75. | 77. | 77. | 131. | 137. |
| 3150 | 78. | 79. | 77. | 132. | 134. |
| 4000 | 78. | 78. | 77. | 131. | 134. |
| 5000 | 75. | 77. | 75. | 126. | 131. |
| 6300 | 72. | 74. | 73. | 125. | 128. |
| 8000 | 70. | 73. | 71. | 121. | 122. |
| 10000 | 66. | 69. | 68. | 117. | 119. |
| 12500 | 63. | 66. | 64. | 116. | 116. |
| 16000 | 60. | 61. | 61. | 110. | 113. |
| 20000 | 55. | 56. | 57. | 108. | 112. |
| OCTAVE FREQ | | | | | |
| 63 | 71. | 70. | 71. | 135. | 141. |
| 125 | 71. | 71. | 72. | 142. | 146. |
| 250 | 75. | 75. | 75. | 141. | 147. |
| 500 | 79. | 79. | 81. | 139. | 146. |
| 1000 | 82. | 83. | 83. | 135. | 145. |
| 2000 | 81. | 81. | 81. | 136. | 144. |
| 4000 | 82. | 83. | 81. | 135. | 138. |
| 8000 | 75. | 77. | 76. | 127. | 129. |
| 16000 | 65. | 68. | 66. | 117. | 119. |
| | - | _ | | | |

CONFIGURATION 1 T63-A-5A BASELINE POWER SETTING 25 READING NO. 172

| | | MICROPHONE | POSITION | | |
|--------------|-----|------------|----------|------|------|
| 1/3 DCT FRED | 1 | 2 | 3 | 4 | 5 |
| 50 | 65. | 64. | 66. | 132. | 136. |
| 63 | 68. | 68. | 69. | 132. | 137. |
| 90 | 66. | 64. | 63. | 132. | 140. |
| 100 | 68. | 66. | 67. | 137. | 142. |
| 125 | 68. | 67. | 70. | 140. | 143. |
| 160 | 67. | 67. | 67. | 137. | 144. |
| 200 | 69. | 68. | 69. | 141. | 143. |
| 250 | 68. | 70. | 70. | 137. | 143. |
| 315 | 71. | 71. | 73. | 136. | 145. |
| 400 | 76. | 74. | 75. | 138. | 144. |
| 500 | 76. | 76. | 78. | 134. | 142. |
| 630 | 76. | 77. | 78. | 134. | 143. |
| 800 | 76. | 77. | 77. | 132. | 142. |
| 1000 | 78. | 79. | 79. | 132. | 141. |
| 1250 | 79. | 74. | 80. | 131. | 141. |
| 1600 | 79. | 78. | 78. | 133. | 141. |
| 2000 | 76. | 76. | 76. | 133. | 140. |
| 2500 | 77. | 77. | 77. | 132. | 138. |
| 3150 | 80. | 79. | 79. | 133. | .35. |
| 4000 | 79. | 79. | 79. | 133. | 134. |
| 5000 | 76. | 78. | 77. | 127. | 133. |
| 6300 | 74. | 76. | 75. | 126. | 129. |
| 8000 | 71. | 74. | 72. | 122. | 124. |
| 10000 | 68. | 70. | 70. | 119. | 120. |
| 12500 | 65. | 67. | 67. | 116. | 117. |
| 16000 | 62. | 63. | 64. | 111. | 114. |
| 20000 | 57. | 58. | 60. | 109. | 112. |
| OCTAVE FREQ | | | | | |
| 63 | 71. | 71. | 71. | 137. | 143. |
| 125 | 72. | 71. | 73. | 143. | 148. |
| 250 | 74. | 75. | 76. | 143. | 149. |
| 500 | 81. | 81. | 82. | 141. | 148. |
| 1000 | 83. | 83. | 84. | 136. | 146. |
| 2000 | 82. | 82. | 82. | 137. | 145. |
| 4000 | 83. | 83. | 83. | 137. | 139. |
| 8000 | 76. | 79. | 78. | 128. | 131. |
| 16000 | 67. | 69. | 69. | 118. | 120. |

CONFIGURATION 1 T63-A-5A BASELINE POWER SETTING 40 READING NJ. 174

| | | MICROPHO | NE POSITIO | N | |
|--------------|------------|-------------|------------|------|-------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 65. | 66. | 65. | 133. | 139. |
| 63 | 68. | 69. | 70. | 134. | 138. |
| 80 | 66. | 64. | 65. | 134. | 140. |
| 100 | 68. | £5. | 67. | 139. | 143. |
| 125 | 67. | 68. | 70. | 141. | 147. |
| 160 | 68. | 69. | 69. | 139. | 145. |
| 200 | 71. | 70. | 71. | 143. | 145. |
| 250 | 70. | 70. | 72. | 139. | 145. |
| 315 | 72. | 70. | 74. | 138. | 147. |
| 400 | 76. | 76. | 75. | 140. | 146. |
| 500 | 76. | 77. | 80. | 136. | 143. |
| 630 | 77. | 76. | 80. | 136. | 144. |
| 80 0 | 76. | 78. | 78. | 133. | 144. |
| 1000 | 79. | 80. | el. | 134. | 142. |
| 1250 | 79. | 81. | 81. | 133. | 143. |
| 1600 | 80. | 79. | 80. | 134. | 143. |
| 2000 | 77. | 77. | 79. | 135. | 143. |
| 250 J | 78. | 75. | 79. | 133. | 140. |
| 3150 | 81. | 81. | .09 | 135. | 137. |
| 4000 | eo. | .08 | 81. | 134. | 135. |
| 5000 | 78. | EQ . | 80. | 129. | 135. |
| 6300 | 75. | 77. | 76. | 127. | 132. |
| 9000 | 72. | 75. | 74. | 124. | 127. |
| 10000 | 70. | 72. | 71. | 120. | 122. |
| 12500 | 67. | 70. | 68. | 118. | 118. |
| 16000 | 64. | £6. | 65. | 112. | 115. |
| 20000 | 59. | 60. | 61. | 109. | 113. |
| OCTAVE FREQ | | | | | |
| 63 | 7.1 | 7.2 | 7.0 | 120 | • • • |
| | 71. | 72. | 72. | 138. | 144. |
| 125 | 72. | 72. | 74. | 145. | 150. |
| 250 | 76. | 75. | 77. | 145. | 151. |
| 500 | 81. | 82. | 84. | 143. | 149. |
| 1000 | 83. | 65. | 85. | 138. | 148. |
| 2000 | 83. | £3. | 84. | 139. | 147. |
| 4000 | £5. | £5. | 65. | 138. | 141. |
| 8000 | 75. | £0. | 79. | 129. | 134. |
| 16000 | 69. | 72. | 70. | 119. | 121. |

CONFIGURATION 1 T63-A-5A BASELINE POWER SETTING 40 READING NU. 191

| | | MICROPHO | NE PCSITIC | N | |
|--------------|-------------|-------------|------------|------|-------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 66. | 67. | 0. | 133. | 138. |
| 63 | 69. | 67. | 0. | 134. | 138. |
| 80 | 65. | 64. | 0. | 135. | 140. |
| 100 | 67. | 68. | 0. | 139. | 143. |
| 125 | 70. | £5. | 0. | 142. | 144. |
| 160 | 70. | 70. | 0. | 139. | 144. |
| 200 | 72. | 72. | 0. | 143. | 145. |
| 250 | 74. | 74. | 0. | 140. | 145. |
| 315 | 75. | 75. | 0. | 139. | 147. |
| 400 | 77. | 75. | 0. | 140. | 145. |
| 500 | 77. | 76. | 0. | 137. | 143. |
| 630 | 78. | 77. | 0. | 137. | 144. |
| 800 | 79. | 79. | 0. | 134. | 143. |
| 1000 | 79. | E1. | 0. | 134. | 143 - |
| 1250 | 80. | 81. | 0. | 133. | 143. |
| 1600 | 79. | 78. | 0. | 134. | 143. |
| 2000 | 78. | 7e. | 0. | 135. | 142. |
| 2500 | 78. | 78. | 0. | 133. | 141. |
| 3150 | 80. | 8G. | 0. | 135. | 137. |
| 4000 | 80. | 75. | 0. | 134. | 136. |
| 5000 | 78. | 78. | 0. | 130. | 135. |
| 6300 | 75. | 77. | o. | 128. | 132. |
| 8000 | 72. | 75. | 0- | 124. | 126. |
| 10000 | 69. | 71. | 0. | 120. | 121. |
| 12500 | 66. | 68. | 0. | 117. | 117. |
| 16000 | eā. | 63. | 0. | 111. | 114. |
| 20000 | 57. | 57. | 0. | 109. | 111. |
| OCTAVE FREQ | | | | | |
| 63 | 72. | 71. | 0. | 139. | 144. |
| 125 | 74. | 74. | o. | 145. | 148. |
| 250 | 79. | 79. | 0. | 146. | 151. |
| 500 | 82. | eı. | 0. | 143. | 149. |
| 1000 | 84. | €5. | 0. | 138. | 148. |
| 2000 | 83. | e3 . | 0. | 139. | 147. |
| 4000 | E4 . | E4 • | 0. | 138. | 141. |
| 8000 | 77. | .09 | ٥. | 130. | 133. |
| 16000 | 68. | 69. | 0. | 118. | 119. |

CONFIGURATION 1 T63-A-5A BASELINE POWER SETTING 55 READING NJ. 154

| | | MICROPHO | NE POSITIO | N | |
|--------------|-------------|-------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | · · | 5 |
| 50 | 70. | 67. | 0. | 135. | 138. |
| 63 | 70. | 69. | 0. | 134. | 140. |
| 80 | 65. | 64. | 0. | 136. | 140. |
| 100 | 67. | 67. | 0. | 140. | 144. |
| 125 | 69. | 70. | 0. | 142. | 146. |
| 160 | 69. | 71. | 0. | 141. | 146. |
| 200 | 72. | 73. | 0. | 145. | 146. |
| 250 | 74. | 74. | 0. | 140. | 145. |
| 31 5 | 76. | 75. | 0. | 139. | 147. |
| 400 | 77. | 76. | 0. | 141. | 146. |
| 500 | 79. | 77. | 0. | 138. | 144. |
| 630 | 78. | 78. | 0. | 137. | 145. |
| 800 | 79. | 80. | 0. | 135. | 144. |
| 1000 | 80. | 81. | 0. | 135. | 143. |
| 1250 | . 09 | £0. | 0. | 133. | 144. |
| 1600 | 81. | 75. | 0. | 135. | 145. |
| 2000 | 79. | 78. | 0. | 136. | 145. |
| 2500 | 75. | 75. | 0. | 134. | 142. |
| 3150 | 81. | .0 3 | 0. | 135. | 139. |
| 4000 | 81. | EQ. | 0. | 135. | 137. |
| 5000 | 78. | 7e. | 0. | 131. | 136. |
| 6300 | 76. | 77. | 0. | 128. | 134. |
| 90C: O | 73. | 75. | 0. | 124. | 128. |
| 10000 | 70. | 72. | 0. | 120. | 123. |
| 12500 | 66. | 65. | 0. | 117. | 123. |
| 16000 | 63. | 64. | 0. | 112. | 121. |
| 20000 | 57. | 58. | 0. | 109. | 121. |
| OCTAVE FREQ | | | | | |
| 63 | 74. | 72. | 0. | 140. | 144. |
| 125 | 73. | 74. | 0. | 146. | 150. |
| 250 | 79. | 75. | 0. | 147. | 151. |
| 500 | 83. | 82. | 0. | 144. | 150. |
| 1000 | E4 • | ٤5. | 0. | 139. | 148. |
| 2000 | 85. | 83. | 0. | 140. | 149. |
| 4000 | E5 . | 84. | 0. | 139. | 142. |
| 8000 | 78. | 60. | 0. | 130. | 135. |
| 16000 | 68. | 70. | 0. | 119. | 127. |

COMFIGURATION 1 T63-A-5A BASELINE POWER SETTING 75 READING NO. 156

| | | MICROPHO | NE POSITION | | |
|--------------|-------------|-------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 71. | 70. | 0. | 134. | 141. |
| 63 | 80. | 79. | 0. | 135. | 140. |
| 80 | 66. | 66. | 0. | 137. | 141. |
| 100 | 68. | 68. | 0. | 140. | 146. |
| 125 | 75. | 74. | 0. | 144. | 148. |
| 160 | 74. | 73. | 0. | 142. | 148. |
| 200 | 75. | 75. | 0. | 144. | 147. |
| 250 | 75. | 75. | 0. | 141. | 146. |
| 315 | 78. | 79. | 0. | 141. | 148. |
| 400 | 77. | 78. | 0. | 141. | 148. |
| 500 | 79. | 77. | 0. | 140. | 145. |
| 630 | 81. | 79. | 0. | 138. | 146. |
| 800 | 80. | 75. | 0. | 135. | 145. |
| 1000 | 82. | 82. | 0. | 135. | 145. |
| 1250 | 83. | 83 . | 0. | 134. | 145. |
| 1600 | 89. | .99 | 0. | 136. | 146. |
| 2000 | 81. | .09 | 0. | 136. | 145. |
| 2500 | 83. | e 3. | 0. | 135. | 143. |
| 3150 | E5. | £3 . | 0. | 136. | 140. |
| 4000 | 82. | 80. | 0. | 136. | 138. |
| 5000 | .0 9 | 79. | 0. | 132. | 136. |
| 6300 | 77. | 77. | 0. | 128. | 135. |
| 8000 | 76. | 76. | 0• | 125. | 129. |
| 10000 | 72. | 73. | 0. | 121. | 124. |
| 12500 | 69. | 70. | 0. | 117. | 123. |
| 16000 | 67. | 67. | 0. | 112. | 122. |
| 20000 | 63. | 62. | 0. | 109. | 121. |
| OCTAVE FREQ | | | | | |
| 63 | 81. | .03 | 0. | 140. | 145. |
| 125 | 78. | 77. | 0. | 147. | 152. |
| 250 | 81. | ٤2. | 0. | 147. | 152. |
| 500 | 84. | €3. | 0. | 145. | 151. |
| 1000 | 87. | £6. | 0. | 139. | 150. |
| 2000 | 90. | 90. | 0. | 140. | 150. |
| 4000 | 88. | E6. | 0. | 140. | 143. |
| 8000 | 80. | 60. | 0. | 130. | 136. |
| 16000 | 72. | 72. | 0. | 119. | 127. |

CONFIGURATION 1 T63-A-5A BASEL INE POWER SETTING 100 READING NO. 158

| | | MICROPHON | E POSITION | | |
|--------------|-----|-----------|-------------|-----|-----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 17. | 76. | 77. | 0. | 0. |
| 63 | 86. | 85. | 87. | 0. | 0. |
| 80 | 72. | 72. | 73. | 0. | 0. |
| 100 | 73. | 73. | 74. | 0. | 0. |
| 125 | 78. | 76. | 80. | 0. | 0 • |
| 160 | 8. | 17. | 79. | 0. | 0. |
| 200 | eo. | 79. | 81. | 0. | 0. |
| 250 | 17. | 78. | 80. | 0. | 0. |
| 315 | 80. | 80. | 83. | 0. | 0. |
| 400 | 81. | EC. | 82. | 0. | 0. |
| 500 | 81. | 61. | 83. | 0. | 0. |
| 630 | £3. | 83. | 84. | 0. | 0. |
| 800 | £3. | 84. | ٤5. | 0. | 0. |
| 1000 | 85. | 86. | 86. | 0. | 0. |
| 1250 | 85. | 86. | 86. | 0. | 0. |
| 1600 | 86. | £6. | 88. | 0. | 0. |
| 2000 | ٤7. | 85. | 88. | 0. | 0. |
| 2500 | 88. | 93. | 90. | 0 • | 0. |
| 3150 | 88. | 94. | 92. | 0. | 0. |
| 4000 | 90. | 95. | 92. | 0. | 0. |
| 5000 | 90. | 95. | 93. | 0. | 0. |
| 6300 | 51. | 55. | 95. | 0. | 0. |
| 8000 | 91. | 11. | 57. | 0. | 0- |
| 10000 | 90. | 93. | 95. | 0. | 0. |
| 12500 | 86. | 50. | 92. | 0. | 0. |
| 16000 | 83. | 86. | 90. | 0. | 0. |
| 20000 | 80. | 83. | 88. | 0. | 0. |
| 20000 | | | | | |
| OCTAVE FREQ | | | | 0 | 0. |
| 63 | 87. | 86. | 88. | 0. | 0. |
| 125 | 82. | 80. | e 3. | 0. | 0. |
| 250 | 84. | 84. | 86. | 0. | 0. |
| 500 | £7. | 86. | 88. | 0. | 0. |
| 1000 | 89. | 50. | 90. | 0. | 0. |
| 2000 | 92. | 55. | 54. | 6. | 0. |
| 4000 | 94. | 99. | 57. | 0. | 0. |
| 8000 | 95. | 99. | 101. | 0. | 0. |
| 16000 | .83 | 92. | 55. | 0. | • |

CONFIGURATION 2
DDA AIR BLAST
POWER SETTING 10
READING NO. 200

| | | MICROPHO | NE POSITIO | N | |
|--------------|-----|------------|------------|------|-------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 66. | 69. | 68. | 130. | 133. |
| 63 | 69. | 66. | 70. | 130. | 135. |
| 80 | 65. | 63. | 63. | 134. | 137. |
| 100 | 64. | 65. | 67. | 137. | 139. |
| 125 | 67. | 66. | 68. | 137. | 141. |
| 160 | 66. | 68. | 70. | 139. | 140. |
| 200 | 71. | 71. | 72. | 138. | 141. |
| 250 | 69. | 69. | 71. | 138. | 142. |
| 315 | 71. | 71. | 73. | 137. | 142. |
| 400 | 76. | 75. | 74. | 133. | 138. |
| 500 | 74. | 74. | 75. | 135. | 139. |
| 630 | 75. | 75. | 77. | 135. | 140. |
| 800 | 76. | 76. | 78. | 133. | 138. |
| 1000 | 75. | 75. | 76. | 129. | 139. |
| 1250 | 75. | 77. | 75. | 130. | 139. |
| 1600 | 75. | 75. | 75. | 131. | 139. |
| 2000 | 74. | 74. | 74. | 130. | 136. |
| 2500 | 73. | 74. | 75. | 131. | 135. |
| 3150 | 75. | 76. | 75. | 130. | 132. |
| 4000 | 76. | 76. | 76. | 126. | 132. |
| 5000 | 73. | 75. | 74. | 123. | 129. |
| 6300 | 71. | 72. | 73. | 122. | 126. |
| 8000 | 68. | 72. | 73. | 120. | 122. |
| 10000 | 65. | 67. | 68. | 114. | 117. |
| 12500 | 63. | 64. | 64. | 111. | 114. |
| 16000 | 59. | 60. | 62. | 110. | 112. |
| 20000 | 55. | 56. | 57. | 109. | 111. |
| OCTAVE FREQ | | | | | |
| 63 | 72. | 71. | 73. | 137. | 140. |
| 125 | 71. | 71. | 73. | 143. | 1.45. |
| 250 | 75. | 75. | 77. | 142. | 146. |
| 500 | 80. | 79. | 80. | 139. | 144. |
| 1000 | 80. | El. | 81. | 136. | 143. |
| 2000 | 79. | 75. | 79. | 135. | 142. |
| 4000 | 80. | .08 | 80. | 132. | 136. |
| 3000 | 73. | 76. | 77. | 125. | 128. |
| 16000 | 65. | ee. | 67. | 115. | 117. |

CONFIGURATION 2 CCA AIR BLAST POWER SETTING 25 READING NO. 203

| | | MICROPHO | NE POSITION | | |
|--------------|-------------|-------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 66. | 67. | 66. | 133. | 136. |
| 63 | 68. | 68. | 69. | 133. | 136. |
| 80 | 64. | 64. | 66. | 136. | 139. |
| 100 | 65. | éé. | 68. | 139. | 140. |
| 125 | 67. | 67. | 69. | 139. | 144. |
| 160 | 67. | ٤9. | 70. | 141. | 142. |
| 200 | 71. | 70. | 71. | 141. | 144. |
| 250 | 71. | 71. | 72. | 142. | 145. |
| 315 | 72. | 72. | 74. | 138. | 144. |
| 400 | 74. | 73. | 75. | 135. | 141. |
| 500 | 75. | 74. | 77. | 136. | 141. |
| 630 | 76. | 77. | 79. | 138. | 142. |
| 800 | 76. | 76. | 77. | 136. | 141. |
| 1000 | 77. | 77. | 78. | 131. | 140. |
| 1250 | 77. | 78. | 77. | 132. | 141. |
| 1600 | 77. | 77. | 77. | 133. | 140. |
| 2000 | 76. | 76. | 77. | 132. | 139. |
| 2500 | 75. | 76. | 77. | 133. | 137. |
| 3150 | 77. | 78. | 77. | 132. | 134. |
| 4000 | 78. | 79. | 79. | 129. | 137. |
| 5000 | 75. | 77. | 77. | 124. | 134. |
| 6300 | 73. | 74. | 76. | 123. | 128. |
| 8000 | 72. | 76. | 77. | 121. | 123. |
| 10000 | 68. | 72. | 75. | 116. | 118. |
| 12500 | 64. | 67. | 68. | 112. | 115. |
| 16000 | 61. | 63 . | 65. | 110. | 113. |
| 20000 | 56 . | 57. | 60. | 109. | 112. |
| | | | | | |
| OCTAVE FREQ | | | | | |
| 63 | 71. | 71. | 72. | 139. | 142. |
| 125 | 71. | 72. | 74. | 145. | 147. |
| 250 | 76. | 76. | 77. | 145. | 149. |
| 500 | 80. | ٤٥. | 82. | 141. | 146. |
| 1000 | 81. | 82. | 82. | 138. | 145. |
| 2000 | 81. | 81. | ٤2. | 137. | 144. |
| 4000 | 82. | 83. | 83. | 134. | 140. |
| 8000 | 76. | 79. | 81. | 126. | 130. |
| 16000 | 66. | 69. | 70. | 115. | 118. |

CONFIGURATION 2 DCA AIR BLAST POWER SETTING 40 READING NO. 205

| | | MICROPHONE | PCSI TION | | |
|--------------|-----|------------|-----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 67. | 69. | 68. | 138. | 139. |
| 63 | 69. | 67. | 70. | 135. | 138. |
| 80 | 65. | 64. | 66. | 138. | 141. |
| 100 | 66. | 66. | 69. | 143. | 142. |
| 125 | 69. | 68. | 71. | 142. | 146. |
| 160 | 69. | 71. | 70. | 143. | 144. |
| 200 | 72. | 71. | 72. | 144. | 146. |
| 250 | 72. | 72. | 74. | 145. | 147. |
| 315 | 74. | 72. | 75. | 140. | 146. |
| 400 | 75. | 73. | 75. | 137. | 144. |
| 500 | 75. | 75. | 77. | 137. | 142. |
| 630 | 78. | 79. | 79. | 141. | 144. |
| 800 | 78. | 76. | 77. | 138. | 143. |
| 1000 | 78. | 78. | 78. | 133. | 142. |
| 1250 | 78. | 75. | 79. | 134. | 142. |
| 1600 | 78. | 78. | 78. | 134. | 143. |
| 2000 | 77. | 77. | 78. | 134. | 141. |
| 2500 | 76. | 77. | 78. | 134. | 140. |
| 3150 | 79. | 80. | 79. | 133. | 136. |
| 4000 | 80. | 80. | 80. | 131. | 137. |
| 5000 | 77. | 75. | 79. | 126. | 137. |
| 6300 | 74. | 75. | 77. | 126. | 131. |
| 8000 | 72. | 75. | 77. | 122. | 126. |
| 10000 | 70. | 74. | 76. | 118. | 121. |
| 12500 | 66. | 69. | 70. | 114. | 117. |
| 16000 | 63. | 65. | 67. | 111. | 114. |
| 20000 | 57. | 59. | 62. | 109. | 112. |
| OCTAVE FREQ | | | | | |
| 63 | 72. | 72. | 73. | 142. | 144. |
| 125 | 73. | 74. | 75. | 147. | 149. |
| 250 | 78. | 76. | 79. | 148. | 151. |
| 500 | 81. | 81. | 82. | 144. | 148. |
| 1000 | 83. | 83. | 83. | 140. | 147. |
| 2000 | 82. | 82. | 83. | 139. | 146. |
| 4000 | 84. | 84. | 84. | 136. | 141. |
| 8000 | 77. | 75. | 81. | 128. | 133. |
| 16000 | 68. | 71. | 72. | 117. | 120. |
| 10000 | 40. | 7.4. | | | 120. |

CONFIGURATION 2 DCA AIR BLAST POWER SETTING 55 READING NO. 207

| | | MICROPHO | NE POSITIO | N: | |
|--------------|-----|------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 65. | 67. | 68. | 141. | 141. |
| 63 | 68. | ee. | 70. | 137. | 140. |
| 80 | 62. | 65. | 66. | 140. | 144. |
| 100 | 62. | 66. | 69. | 144. | 144. |
| 125 | 66. | 70. | 71. | 142. | 146. |
| 160 | 66. | 10. | 72. | 143. | 146. |
| 200 | 71. | 73. | 73. | 146. | 147. |
| 250 | 70. | 73. | 75. | 146. | 148. |
| 315 | 70. | 73. | 75. | 140. | 147. |
| 400 | 72. | 74. | 74. | 138. | 144. |
| 500 | 72. | 75. | 77. | 138. | 143. |
| 630 | 75. | 75. | 80. | 141. | 145. |
| 800 | 74. | 77. | 79. | 139. | 144. |
| 1000 | 74. | 70. | 79. | 134. | 143. |
| 1250 | 75. | eG. | 80. | 134. | 143. |
| 1600 | 75. | 78. | 78. | 135. | 144. |
| 2000 | 75. | 78. | 78. | 134. | 143. |
| 2500 | 74. | 78. | 79. | 135. | 140. |
| 3150 | 77. | 81. | 79. | 134. | 138. |
| 4000 | 77. | 80. | 80. | 131. | 138. |
| 5000 | 76. | 81. | 80. | 126. | 137. |
| 6300 | 73. | 77. | 78. | 127. | 133. |
| 8000 | 71. | 77. | 79. | 122. | 128. |
| 10000 | 69. | 76. | 80. | 118. | 123. |
| 12500 | 65. | 73. | 73. | 115. | 119. |
| 16000 | 63. | 67. | 69. | 111. | 114. |
| 20000 | 56. | 61. | 63. | 109. | 112. |
| OCTAVE FREQ | | | | | |
| 63 | 70. | 72. | 73. | 144. | 147. |
| 125 | 70. | 74. | 76. | 148. | 150. |
| 250 | 75. | 78. | 79. | 150. | 152. |
| 500 | 78. | 81. | 82. | 144. | 149. |
| 1000 | 79. | 83. | 84. | 141. | 148. |
| 2000 | 79. | £3. | 83. | 139. | 147. |
| 4000 | 81. | 85. | £4. | 136. | 142. |
| 8000 | 76. | 81. | 84. | 129. | 135. |
| 16000 | 67. | 74. | 75. | 117. | 121. |

CONFIGURATION 2 DCA AIR BLAST POWER SETTING 75 READING ND. 209

| | | MICROPHO | NE POSITION | ų. | |
|--------------|-----|--------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 65. | 72. | 73. | 141. | 142. |
| 63 | 78. | eo. | 82. | 138. | 142. |
| 80 | 64. | 67. | 68. | 141. | 144. |
| 100 | 65. | €8. | 70. | 145. | 146. |
| 125 | 71. | 73. | 77. | 146. | 149. |
| 160 | 72. | 74. | 76. | 144. | 147. |
| 200 | 74. | 76. | 75. | 149. | 150. |
| 250 | 73. | 77. | 77. | 148. | 148. |
| 315 | 75. | 75. | 81. | 140. | 147. |
| 400 | 75. | 78. | 79. | 139. | 146. |
| 500 | 76. | 75. | 80. | 139. | 144. |
| 630 | 78. | e1. | 82. | 142. | 146. |
| 800 | 71. | EQ. | 82. | 140. | 145. |
| 1000 | 77. | 81. | 81. | 136. | 144. |
| 1250 | 17. | ٤2. | 81. | 135. | 144. |
| 1600 | 17. | 80. | 81. | 136. | 145. |
| 2000 | 77. | e1. | 82. | 135. | 144. |
| 2500 | 79. | £5. | 84. | 136. | 142. |
| 3150 | 78. | 21. | 81. | 135. | 140. |
| 4000 | 78. | ٤1. | 81. | 133. | 139. |
| 5000 | 76. | 82. | 81. | 127. | 138. |
| 6300 | 74. | 78. | 78. | 129. | 137. |
| 800 U | 71. | 76. | 77. | 124. | 130. |
| 10000 | 69. | 75. | 77. | 119. | 125. |
| 12500 | 66. | 73. | 74. | 115. | 122. |
| 16000 | 64. | 68. | 71. | 112. | 116. |
| 20000 | 59. | 62. | 66. | 110. | 112. |
| OCTAVE FREQ | | | | | |
| 63 | 79. | 81. | 83. | 145. | 148. |
| 125 | 75. | 77. | 80. | 150. | 152. |
| 250 | 79. | ٤2. | 83. | 152. | 153. |
| 500 | 81. | E4. | E5 . | 145. | 150. |
| 1000 | 82. | 8 ć . | 86. | 142. | 149. |
| 2000 | 83. | e7. | 87. | 140. | 149. |
| 4000 | 82. | 86. | 86. | 138. | 144. |
| 8000 | 77. | 81. | 82. | 131. | 138. |
| 16000 | 69. | 74. | 76. | 118. | 123. |

CONFIGURATION 3 EXTENDED LENGTH POWER SETTING 10 READING NO. 214

| | | MICROPHO | NE POSITIO | N | |
|--------------|-----|-------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 66. | 66. | 66. | 136. | 139. |
| 63 | 68. | 67. | 69. | 134. | 139. |
| 80 | 64. | €2. | 63. | 139. | 141. |
| 100 | 65. | 65. | 67. | 140. | 143. |
| 125 | 66. | 68. | 69. | 138. | 142. |
| 160 | 67. | 69. | 70. | 143. | 144. |
| 200 | 70. | 71. | 71. | 141. | 143. |
| 250 | 69. | 69. | 71. | 139. | 144. |
| 315 | 72. | 71. | 72. | 139. | 145. |
| 400 | 75. | 74. | 75. | 140. | 141. |
| 500 | 74. | 74. | 76. | 134. | 142. |
| 630 | 77. | 77. | 78. | 129. | 142. |
| 800 | 78. | 75. | 80. | 133. | 142. |
| 1000 | 76. | .0 9 | 77. | 135. | 140. |
| 1250 | 73. | 73. | 75. | 129. | 140. |
| 1600 | 75. | 78. | 76. | 130. | 140. |
| 2000 | 74. | 74. | 75. | 130. | 138. |
| 2500 | 73. | 74. | 74. | 129. | 137. |
| 3150 | 75. | 75. | 75. | 128. | 134. |
| 4000 | 74. | 75. | 76. | 124. | 132. |
| 5000 | 71. | 74. | 73. | 122. | 130. |
| 6300 | 69. | 72. | 72. | 120. | 126. |
| 8000 | 67. | 70. | 71. | 117. | 122. |
| 10000 | 64. | 66. | 67. | 114. | 118. |
| 12500 | 59. | 61. | 62. | 112. | 116. |
| 16000 | 55. | 56. | 59. | 110. | 114. |
| 20000 | 52. | 52. | 56. | 109. | 113. |
| OCTAVE FREQ | | | | | |
| 63 | 71. | 70. | 71. | 142. | 145. |
| 125 | 71. | 72. | 74. | 146. | 148. |
| 250 | 75. | 75. | 76. | 145. | 149. |
| 500 | 80. | .03 | 81. | 141. | 146. |
| 1000 | 81. | 83. | 83. | 138. | 146. |
| 2000 | 79. | 81. | 80. | 134. | 143. |
| 4000 | 78. | 79. | 80. | 130. | 137. |
| 8000 | 72. | 75. | 75. | 122. | 128. |
| 16000 | 61. | 63. | 64. | 115. | 119. |

CONFIGURATION 3
EXTENDED LENGTH
POWER SETTING 25
READING NO. 216

| | | MICROPHO | THE POSITION | N | |
|--------------|-------------|------------|--------------|------|------|
| 1/3 UCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 68. | 68. | 71. | 138. | 141. |
| 63 | 75. | 77. | 79. | 136. | 140. |
| 80 | 64. | £5. | 67. | 141. | 143. |
| 100 | 67. | 67. | 69. | 143. | 143. |
| 125 | 12. | 74. | 75. | 140. | 145. |
| 160 | 73. | 72. | 74. | 143. | 144. |
| 200 | 73. | 72. | 73. | 141. | 144. |
| 250 | 74. | 74. | 76. | 141. | 144. |
| 315 | 77. | 76. | 78. | 140. | 145. |
| 400 | 79. | 79. | 78. | 142. | 143. |
| 500 | 78. | 77. | 79. | 138. | 142. |
| 630 | 80. | e1. | 81. | 131. | 143. |
| 8u 0 | 81. | 82. | 81. | 133. | 143. |
| 1000 | 80. | 82. | 80. | 138. | 141. |
| 1250 | 78. | 77. | 78. | 131. | 141. |
| 1600 | 79. | 79. | 79. | 131. | 141. |
| 2000 | 80. | 79. | 80. | 131. | 141. |
| 2500 | 85. | 82. | 85. | 131. | 139. |
| 3150 | 78. | 78. | 77. | 129. | 136. |
| 4000 | 77. | 77. | 77. | 126. | 134. |
| 5000 | 74. | 76. | 75. | 123. | 132. |
| 6300 | 71. | 74. | 72. | 121. | 128. |
| 8000 | 69. | 71. | 72. | 119. | 124. |
| 10000 | 66. | 68. | 68. | 115. | 120. |
| 12500 | 61. | 63. | 63. | 113. | 118. |
| 16000 | 57. | 58. | 59. | 111. | 114. |
| 20000 | 53. | 53. | 56. | 110. | 112. |
| OCTAVE FREQ | | | | | |
| 63 | 76. | 78. | 80. | 144. | 146. |
| 125 | 76. | 77. | 78. | 147. | 149. |
| 250 | 80. | £0. | 81. | 145. | 149. |
| 500 | 84. | £4. | 84. | 144. | 147. |
| 1000 | e 5. | £6. | 85. | 140. | 147. |
| 2000 | 87. | E5. | 87. | 136. | 145. |
| 4000 | 81. | 82. | 81. | 131. | 139. |
| 9000 | 74. | 76. | 76. | 124. | 130. |
| 16000 | 63. | 65. | 65. | 116. | 120. |

CONFIGURATION 3
EXTENDED LENGTH
POWER SETTING 40
READING NO. 220

| | | MICROPHO | THE POSITIO | N | |
|--------------|-------|-------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 70. | 71. | 141. | 142. |
| 63 | 77. | e0 • | 80. | 138. | 141. |
| 30 | 65. | 65. | 66. | 142. | 144. |
| 100 | 67. | 67. | 70. | 144. | 145. |
| 125 | 75. | 74. | 79. | 141. | 146. |
| 160 | 72. | 73. | 74. | 143. | 145. |
| 200 | 74. | 73. | 73. | 141. | 147. |
| 250 | 75. | 75. | 77. | 141. | 146. |
| 315 | 78. | 78. | 78. | 142. | 147. |
| 400 | 78. | 79. | 79. | 143. | 145. |
| 500 | 77. | 78. | 79. | 140. | 145. |
| 630 | 82. | £3 . | 82. | 132. | 145. |
| 800 | 81. | €2. | 82. | 134. | 145. |
| 1000 | 81. | 25. | 83. | 139. | 144. |
| 1250 | 78. | 79. | 80. | 133. | 143. |
| 1600 | 80. | 81. | 80. | 133. | 143. |
| 2000 | 80. | eo. | 83. | 133. | 143. |
| 2500 | 79. | E2. | 88. | 133. | 141. |
| 3150 | 79. | 79. | 79. | 132. | 138. |
| 4000 | 79. | 80. | 81. | 129. | 137. |
| 5000 | 76. | 79. | 79. | 124. | 135. |
| 6300 | 73. | 76. | 76. | 123. | 131. |
| 8000 | 71. | 74. | 75. | 121. | 127. |
| 10000 | 66. | 65. | 70. | 116. | 123. |
| 12500 | ez. | 64. | 65. | 114. | 121. |
| 16000 | 58. | 55. | 61. | 111. | 116. |
| 20000 | 54. | 54. | 57. | 109. | 113. |
| OCTAVE FREQ | | | | | |
| 63 | 78. | 81. | 81. | 145. | 1/7 |
| 125 | 78. | 77. | 81. | 148. | 147. |
| 250 | 81. | 81. | 81. | 146. | 150. |
| 500 | 84. | £5. | 85. | 145. | 151. |
| 1000 | 85. | £ 7. | 87. | 141. | 150. |
| 2000 | 84. | £6. | 90. | 138. | 149. |
| 4000 | e3. | £4. | 85. | 134. | 147. |
| 8000 | 76. | 79. | 79. | 126. | 142. |
| 16000 | 64. | 66. | 67. | 117. | 133. |
| | ~ · • | | 01. | 111. | 123. |

CONFIGURATION 3 EXTENDED LENGTH POWER SETTING 55 READING NO. 223

| | | MICROPHO | NE POSITION | 1 | |
|--------------|-----|------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 68. | 71. | 71. | 144. | 143. |
| 63 | 78. | 80. | 81. | 139. | 145. |
| 80 | 65. | 66. | 66. | 143. | 146. |
| 100 | 67. | 67. | 70. | 145. | 147. |
| 125 | 76. | 75. | 79. | 141. | 147. |
| 160 | 72. | 73. | 74. | 144. | 147. |
| 200 | 74. | 75. | 74. | 142. | 147. |
| 250 | 75. | 76. | 78. | 142. | 147. |
| 315 | 77. | 78. | 80. | 142. | 149. |
| 400 | 78. | 75. | 79. | 143. | 147. |
| 500 | 77. | 78. | 82. | 142. | 146. |
| 630 | 81. | 82. | 83. | 133. | 146. |
| 800 | 80. | ٤2. | 82. | 134. | 147. |
| 1000 | 81. | ٤5. | 82. | 141. | 146. |
| 1250 | 78. | eq. | 80. | 134. | 145. |
| 1600 | 80. | 81. | 80. | 134. | 145. |
| 2000 | 80. | 60. | 81. | 134. | 145. |
| 2500 | 19. | £1. | 83. | 133. | 143. |
| 3150 | 79. | EO. | 80. | 132. | 140. |
| 4000 | 78. | 80. | 81. | 129. | 138. |
| 5000 | 76. | 79. | 80. | 125. | 137. |
| 6300 | 73. | 77. | 77. | 125. | 133. |
| 8000 | 71. | 76. | 77. | 121. | 129. |
| 10000 | 67. | 71. | 73. | 116. | 125. |
| 12500 | 63. | 67. | 67. | 114. | 125. |
| 16000 | 58. | 60. | 63. | 111. | 123. |
| 20000 | 54. | 55. | 58. | 110. | 122. |
| OCTAVE FREG | | | | | |
| 63 | 79. | 81. | 82. | 147. | 150. |
| 125 | 78. | 78. | 81. | 148. | 152. |
| 250 | 80. | el. | 83. | 147. | 153. |
| 500 | 84. | €5. | 86. | 146. | 151. |
| 1000 | 85. | 88. | 86. | 142. | 151. |
| 2000 | 84. | 85. | 86. | 138. | 149. |
| 4000 | 83. | 84. | 85. | 134. | 143. |
| 8000 | 76. | 80. | 81. | 127. | 135. |
| 16000 | 65. | 68. | 69. | 117. | 128. |

CONFIGURATION 3 EXTENDED LENGTH POWER SETTING 75 READING NO. 227

| | | MICROPHO | NE POSITION | | |
|--------------|-----|-------------|-------------|------|------|
| 1/3 DCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 70. | 72. | 146. | 146. |
| 63 | 77. | 75. | 81. | 142. | 145. |
| 80 | 63. | 66. | 68. | 144. | 147. |
| 100 | 67. | 68. | 72. | 147. | 147. |
| 125 | 75. | 76. | 80. | 144. | 149. |
| 160 | 72. | 73. | 75. | 145. | 149. |
| 200 | 74. | 75. | 75. | 145. | 150. |
| 250 | 74. | 76. | 78. | 144. | 149. |
| 315 | 76. | 78. | 80. | 143. | 149. |
| 400 | 77. | 79. | 80. | 143. | 148. |
| 500 | 77. | 78. | 80. | 144. | 147. |
| 630 | 80. | 82. | 83. | 134. | 148. |
| 8() Q | 80. | 81. | 83. | 135. | 148. |
| 1000 | 82. | ٤7. | 84. | 142. | 147. |
| 1250 | .09 | 81. | 82. | 136. | 146. |
| 1600 | 80. | £2 • | 82. | 134. | 146. |
| 2000 | 80. | 82. | 82. | 135. | 145. |
| 2500 | 82. | E5. | 84. | 134. | 144. |
| 3150 | 79. | EO. | 81. | 133. | 141. |
| 4000 | 79. | 81. | 81. | 130. | 139. |
| 5000 | 76. | ٤٥. | 80. | 126. | 137. |
| 6300 | 74. | 78. | 79. | 126. | 135. |
| 8000 | 71. | 76. | 79. | 122. | 130. |
| 10000 | 67. | 72. | 76. | 118. | 126. |
| 12500 | 63. | 68. | 69. | 120. | 125. |
| 16000 | 58. | 62. | 65. | 119. | 123. |
| 20000 | 54. | 56. | 60. | 119. | 122. |
| OCTAVE FREQ | | | | | |
| 63 | 78. | 80. | 82. | 149. | 151. |
| 125 | 77. | 78. | 82. | 150. | 153. |
| 250 | 80. | 81. | 83. | 149. | 154. |
| 500 | 83. | 85. | 86. | 147. | 152. |
| 1000 | 86. | 85. | 88. | 144. | 152. |
| 2000 | 86. | .93 | 88. | 139. | 150. |
| 4000 | 83. | 85. | ٤5. | 135. | 144. |
| 8000 | 76. | 81. | 83. | 128. | 137. |
| 16000 | 65. | 69 | 71. | 124. | 128. |

CONFIGURATION 3
EXTENDED LENGTH
POWER SETTING 100
READING NO. 230

| | | MICROPHO | NE POSITION | | |
|--------------|-----|-------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 67. | 73. | 74. | 146. | 146. |
| 63 | 76. | 81. | 82. | 143. | 144. |
| 80 | 63. | 67. | 70. | 145. | 147. |
| 100 | 65. | 70. | 73. | 148. | 148. |
| 125 | 73. | 76. | 80. | 145. | 149. |
| 160 | 70. | 75. | 76. | 145. | 150. |
| 200 | 71. | 76. | 76. | 148. | 150. |
| 250 | 72. | 77. | 79. | 145. | 149. |
| 315 | 74. | 78. | 81. | 143. | 150. |
| 400 | 74. | 78. | 81. | 143. | 149. |
| 500 | 74. | 79. | 80. | 145. | 148. |
| 630 | 78. | e3 . | 82. | 136. | 150. |
| 800 | 78. | E2. | 83. | 135. | 148. |
| 1000 | 79. | 86. | 84. | 142. | 148. |
| 1250 | 78. | £3. | 83. | 139. | 148. |
| 1600 | 77. | £2. | 81. | 135. | 147. |
| 2000 | 77. | 83. | 83. | 136. | 147. |
| 2500 | 78. | E4. | 85. | 135. | 145. |
| 3150 | 77. | 84. | 82. | 133. | 143. |
| 4000 | 77. | £6. | 84. | 131. | 141. |
| 5000 | 75. | 85. | 84. | 127. | 139. |
| 6300 | 74. | 84. | 85. | 128. | 138. |
| 8000 | 73. | 24. | 85. | 122. | 133. |
| 10000 | 71. | 82. | 84. | 119. | 128. |
| 12500 | 70. | £1. | 79. | 120. | 127. |
| 16000 | 68. | 78. | 79. | 120. | 124. |
| 20000 | 62. | 73. | 73. | 119. | 122. |
| OCTAVE FREQ | | | | | |
| 63 | 77. | 82. | 83. | 150. | 151. |
| 125 | 75. | 79. | 82. | 151. | 154. |
| 250 | 77. | e2 . | 84. | 151. | 154. |
| 500 | 81. | 85. | 86. | 147. | 154. |
| 1000 | 83. | 89. | 88. | 144. | 153. |
| 2000 | 82. | 88. | 88. | 140. | 151. |
| 4000 | 81. | 90. | 88. | 136. | 146. |
| 8000 | 78. | 88. | 89. | 129. | 140. |
| 16000 | 73. | 83. | 83. | 124. | 130. |

CONFIGURATION 4
DDA AIR BLAST LESS 8 D/O PRIMARY AIR
POWER SETTING 10
READING NO. 233

| | | MICROPHO | NE POSITIO | V. | |
|--------------|-----|------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 66. | 65. | 66. | 132. | 136 |
| 63 | 70. | 66. | 70. | 132. | 137. |
| 80 | 62. | 63. | 64. | 136. | 140. |
| 100 | 66. | 67. | 68. | 140. | 142. |
| 125 | 66. | 69. | 69. | 138. | 145. |
| 160 | 69. | 70. | 69. | 143. | 142. |
| 200 | 70. | 7G. | 69. | 140. | 144. |
| 250 | 68. | 71. | 71. | 139. | 144. |
| 315 | 73. | 73. | 73. | 137. | 143. |
| 400 | 75. | 75. | 76. | 134. | 139. |
| 500 | 75. | 74. | 76. | 135. | 140. |
| 630 | 75. | 77. | 78. | 134. | 140. |
| 800 | 75. | 77. | 78. | 134. | 140. |
| 1000 | 76. | 76. | 76. | 130. | 138. |
| 1250 | 75. | 76. | 77. | 130. | 138. |
| 1600 | 14. | 75. | 76. | 130. | 138. |
| 2000 | 74. | 74. | 75. | 131. | 136. |
| 2500 | 74. | 76. | 76. | 131. | 135. |
| 3150 | 76. | 78. | 77. | 131. | 132. |
| 4900 | 78. | 78. | 78. | 128. | 131. |
| 5000 | 74. | 75. | 74. | 123. | 128. |
| 6300 | 72. | 73. | 72. | 120. | 124. |
| 8000 | 69. | 71. | 71. | 113. | 119. |
| 10000 | 67. | 69. | 68. | 114. | 116. |
| 12500 | 65. | 68. | 67. | 113. | 115. |
| 15000 | 62. | 63. | 63. | 111. | 114. |
| 20000 | 55. | 56. | 57. | 110. | 113. |
| OCTAVE FREQ | | | | | |
| 63 | 72. | 70. | 72. | 139. | 143. |
| 125 | 12. | 74. | 73. | 146. | 148. |
| 250 | 16. | 76. | 76. | 144. | 148. |
| 500 | 30. | £0. | 82. | 139. | 144. |
| 1000 | 80. | ٤2. | 82. | 137. | 144. |
| 2000 | 79. | eo. | გა. | 135. | 141. |
| 4000 | 81. | 62. | 81. | 133. | 135. |
| 800) | 75. | 76. | 75. | 123. | 126. |
| 16000 | 67. | 65. | 69. | 116. | 119. |

CONFIGURATION 4
DCA AIR BLAST LESS 8 0/0 PRIMARY AIR
POWER SETTING 25
READING NJ. 237

| | | MICROPHO | NE POSITION | | |
|--------------|------|----------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 68. | 68. | 68. | 136. | 140. |
| 63 | 71. | 68. | 68. | 134. | 138. |
| 80 | 64. | 65. | 66. | 138. | 141. |
| 100 | 101. | 94. | 98 • | 158. | 160. |
| 125 | 69. | 70. | 71. | 140. | 145. |
| 160 | 68. | 65. | 69. | 142. | 144. |
| 200 | 73. | 72. | 72. | 142. | 146. |
| 250 | 69. | 71. | 72. | 144. | 147. |
| 315 | 71. | 72. | 74. | 139. | 145. |
| 400 | 76. | 74. | 76. | 136. | 142. |
| 500 | 76. | 75. | 77. | 137. | 141. |
| 630 | 75. | 77. | 77. | 138. | 142. |
| 800 | 76. | 77. | 77. | 137. | 141. |
| 1000 | 77. | 78. | 77. | 132. | 140. |
| 1250 | 76. | 78. | 78. | 132. | 141. |
| 1600 | 75. | 76. | 77. | 132. | 141. |
| 2000 | 75. | 76. | 77. | 132. | 139. |
| 2500 | 75. | 77. | 77. | 133. | 138. |
| 3150 | 77. | 78. | 79. | 133. | 134. |
| 4000 | 78• | 80. | 80. | 130. | 134. |
| 5000 | 76. | 77. | 77. | 124. | 132. |
| 6300 | 73. | 75. | 75. | 123. | 126. |
| 8000 | 71. | 73. | 73. | 121. | 123. |
| 10000 | 68. | 73. | 70. | 116. | 118. |
| 12500 | 66. | 7C. | 68. | 114. | 116. |
| 16000 | 63. | 65. | 66. | 111. | 114. |
| 20000 | 57. | 58. | 59. | 110. | 113. |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 72. | 72. | 141. | 145. |
| 125 | 101. | 54. | 98. | 158. | 160. |
| 250 | 76. | 76. | 78. | 147. | 151. |
| 500 | 80. | £0. | 81. | 142. | 146. |
| 1000 | 81. | 82. | 82. | 139. | 145. |
| 2000 | 80. | 81. | 82. | 137. | 144. |
| 4000 | 82. | 83. | 84. | 135. | 138. |
| 8000 | 76. | 75. | 78. | 126. | 128. |
| 16000 | £8. | 71. | 70. | 117. | 119. |

CONFIGURATION 4
DCA AIR BLAST LESS 8 0/0 PRIMARY AIR
POWER SETTING 40
READING NU. 240

| | | MICROPHEN | E PCSITION | | |
|--------------|-----|-----------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | U. | 68. | 70. | 136. | 142. |
| 63 | 0. | 76. | 79. | 134. | 140. |
| 80 | 0. | 65. | 66. | 138. | 144. |
| 100 | 0. | 56. | 75. | 149. | 151. |
| 125 | v. | 75. | 76. | 142. | 147. |
| 160 | 0. | 73. | 75. | 145. | 146. |
| 200 | 0. | 73. | 73. | 145. | 147. |
| 250 | U. | 76. | 77. | 146. | 148. |
| 315 | 0. | 80. | 80. | 141. | 147. |
| 400 | 0. | 76. | 79. | 138. | 144. |
| 500 | 0. | 77. | 78. | 138. | 143. |
| 630 | 0. | 81. | 81. | 140. | 144. |
| 800 | 0. | 80. | 80. | 139. | 143. |
| 1000 | 0. | .08 | 80. | 134. | 142. |
| 1250 | 0. | 81. | 80. | 133. | 143. |
| 1600 | 0. | 75. | 80. | 133. | 143. |
| 2000 | 0. | 75. | 31. | 134. | 141. |
| 2500 | 0. | 81. | 84. | 134. | 141. |
| 3150 | 0. | 81. | 81. | 135. | 137. |
| 4000 | 0. | 81. | 81. | 133. | 136. |
| 5000 | 0. | 80. | 79. | 126. | 134. |
| 6300 | 0. | 75. | 77. | 125. | 130. |
| 8000 | ٥. | 75. | 75. | 123. | 125. |
| 10000 | 0. | 73. | 72. | 118. | 120. |
| 12500 | 0. | 70. | 70. | 116. | 118. |
| 16000 | 0. | 66. | 67. | 112. | 115. |
| 20000 | 0. | 59. | 61. | 110. | 113. |
| OCTAVE FREQ | | | | | |
| 63 | 0. | 77. | 80. | 141. | 147. |
| 125 | v. | 58. | 80. | 151. | 153. |
| 250 | 0. | 82. | 82. | 149. | 152. |
| 500 | 0. | £4. | 84. | 144. | 148. |
| 1000 | 0. | £5. | 85. | 141. | 147. |
| 2000 | 0. | e5. | e7. | 138. | 147. |
| 4000 | Q. | £5. | £5. | 137. | 141. |
| 8000 | 0. | £1. | 80. | 128. | 132. |
| 16000 | 0. | 72. | 72. | 118. | 121. |
| 10000 | 47. | 16. | 720 | 110. | 121. |

CONFIGURATION 4
DCA AIR BLAST LESS 8 0/0 PRIMARY AIR
POWER SETTING 55
READING NO. 243

| | | MICROPHO | NE POSITIC | N | |
|--------------|----|-------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 0. | 69. | 70. | 140. | 141. |
| 63 | 0. | 78. | 79. | 136. | 140. |
| 80 | 0. | 65 . | 66. | 139. | 143. |
| 100 | 0. | 6 9. | 71. | 143. | 145. |
| 125 | v. | 75. | 77. | 143. | 148. |
| 160 | 0. | 74. | 74. | 144. | 146. |
| 200 | O. | 75. | 74. | 146. | 148. |
| 250 | 0. | 77. | 77. | 146. | 148. |
| 315 | v. | EG. | 81. | 141. | 148. |
| 400 | 0. | 78. | 79. | 139. | 145. |
| 500 | 0. | 78. | 78. | 139. | 144. |
| 630 | U. | 81. | 81. | 141. | 145. |
| 800 | 0. | 80. | 80. | 141. | 145. |
| 1000 | 0. | 81. | 81. | 135. | 142. |
| 1250 | 0. | £1. | 80. | 134. | 143. |
| 1600 | 0. | eu. | 81. | 134. | 144. |
| 2000 | 0. | .03 | 80. | 134. | 143. |
| 2500 | 0. | 82. | 81. | 135. | 141. |
| 3150 | 0. | 81. | 81. | 135. | 139. |
| 4000 | 0. | e1. | 81. | 133. | 137. |
| 5000 | 0. | €0. | 80. | 127. | 136. |
| 6300 | U. | 78. | 77. | 126. | 132. |
| 8000 | o. | 75. | 75. | 124. | 127. |
| 10000 | 0. | 74. | 73. | 118. | 122. |
| 12500 | 0. | 72. | 70. | 116. | 119. |
| 16000 | U. | ćć. | 69. | 111. | 115. |
| 20000 | 0. | 60. | 62. | 110. | 112. |
| OCTAVE FREQ | | | | | |
| 63 | v. | 79. | 80. | 143. | 146. |
| 125 | ů. | 78. | 79. | 148. | 151. |
| 250 | o. | 83. | 83. | 150. | 153. |
| 500 | o. | 84. | 84. | 145. | 149. |
| 1000 | å. | 85. | 85. | 143. | 148. |
| 2000 | o. | 86. | 85. | 139. | 148. |
| 4000 | 0. | 85. | £5. | 138. | 142. |
| 8000 | ű. | 81. | 80. | 129. | 134. |
| 16000 | 0. | 73. | 73. | 118. | 121. |
| | | • | | | |

CONFIGURATION 4
CCA AIR BLAST LESS 8 0/0 PRIMARY AIR
POWER SETTING 75
READING NO. 246

| | | MICROPHO | NE POSITION | N | |
|--------------|----|-------------|-------------|-------|------|
| 1/3 DCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 0. | 69. | 70. | 140. | 144. |
| 63 | 0. | 78. | 79. | 137. | 142. |
| 80 | 0. | 67. | 67. | 141. | 145. |
| 100 | 0. | 70. | 71. | 144. | 147. |
| 125 | o. | 77. | 78. | 144. | 148. |
| 160 | 0. | 75. | 15. | 144. | 147. |
| 200 | u. | 75. | 74. | 149. | 150. |
| 250 | 0. | 77. | 78. | 147. | 149. |
| 315 | 0. | £ 0. | 81. | 141. | 147. |
| 400 | 0. | 79. | 80. | 139. | 146. |
| 500 | 0. | 77. | 79. | 140. | 145. |
| 630 | 0. | 81. | 82. | 143. | 146. |
| 800 | J. | ٤٥. | 81. | 141. | 146. |
| 1000 | v. | ٤1. | 82. | 136. | 144. |
| 1250 | 0. | 81. | 81. | 135. | 144. |
| 1600 | 0. | 81. | 82. | 134. | 144. |
| 2000 | v. | e0. | 81. | 135. | 143. |
| 2500 | 0. | 82. | 82. | 136. | 142. |
| 3150 | 0. | ٤1. | e1 . | 136. | 140. |
| 4000 | 0. | £2 . | 81. | 134. | 138. |
| 5000 | 0. | ٤1. | 81. | 127. | 137. |
| 6300 | U. | 78. | 78. | 128. | 134. |
| 8000 | U. | 77. | 77. | 123. | 128. |
| 10000 | v. | 77. | 77. | 119. | 124. |
| 12500 | U. | 73. | 73. | 116. | 121. |
| 16000 | 0. | 66. | 67. | 112. | 116. |
| 20000 | 0. | 59. | 61. | 110. | 113. |
| OCTAVE ENEO | | | | | |
| OCTAVE FREQ | • | 3.6 | 0.0 | • • • | 140 |
| 63 | 0. | 75. | 80. | 144. | 149. |
| 125 | 0. | 80. | 80. | 149. | 152. |
| 250 500 | 0. | £3. | 83. | 152. | 154. |
| 500 | 0. | 84. | 65. | 146. | 150. |
| 1000 | 0. | 85. | 86. | 143. | 150. |
| 2000 | 0. | 86. | 86. | 140. | 148. |
| 4000 | 0. | 66. | 86. | 138. | 143. |
| 8000 | v. | 82. | 82. | 130. | 135. |
| 16000 | 0. | 74. | 74. | 118. | 123. |

CONFIGURATION 4
DDA AIR BLAST LESS & U/O PRIMARY AIR
POWER SETTING 100
READING NJ. 249

| | | MICROPHO | NE POSITION | \ | |
|--------------|-----------|-------------|-------------|----------|------|
| 1/3 UCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 0. | 71. | 12. | 142. | 144. |
| 63 | 0. | 78. | 80. | 140. | 144. |
| 80 | v. | 68. | 69. | 141. | 145. |
| 100 | 0. | 71. | 12. | 146. | 149. |
| 125 | 0. | 78. | 80. | 146. | 150. |
| 160 | 0. | 75. | 75. | 146. | 151. |
| 200 | 0. | 76. | 76. | 153. | 151. |
| 250 | 0. | 76. | 79. | 146. | 149. |
| 315 | 0. | 80. | 80. | 141. | 149. |
| 400 | U. | 75. | 80. | 140. | 148. |
| 500 | 0. | 76. | 80. | 141. | 147. |
| 631) | 0. | £2. | 82. | 145. | 148. |
| 800 | U. | 82. | 84. | 144. | 148. |
| 1000 | 0. | 82. | 84. | 138. | 146. |
| 1250 | U. | 82. | 81. | 135. | 146. |
| 1600 | 0. | 81. | 83. | 135. | 146. |
| 2000 | 0. | ٤2. | 85. | 135. | 146. |
| 2500 | 0. | E7. | 83. | 136. | 144. |
| 3150 | 0. | 82. | 81. | 136. | 141. |
| 4000 | v. | 83. | 82. | 135. | 140. |
| 5000 | u. | 82. | 82. | 128. | 138. |
| 6300 | 0. | 81. | 80. | 130. | 137. |
| 8000 | 0. | e0. | 80. | 124. | 132. |
| 10000 | 0. | eı. | 79. | 120. | 127. |
| 12500 | 0. | 76. | 77. | 121. | 126. |
| 16000 | 0. | 71. | 72. | 120. | 123. |
| 20000 | 0. | 65. | 67. | 120. | 122. |
| OCTAVE FREQ | | | | | |
| 63 | 0. | 75. | 81. | 146. | 149. |
| 125 | 0. | e 0. | 82. | 151. | 155. |
| 250 | 0. | 83. | 83. | 154. | 155. |
| 500 | 0. | 85. | 86. | 147. | 152. |
| 1000 | 0 • | ٤7. | 88. | 145. | 152. |
| 2000 | 0. | 89. | 89. | 140. | 150. |
| 4000 | 0. | e7. | 86. | 139. | 145. |
| 8000 | v. | ٤5. | 34. | 131. | 139. |
| 16000 | 0. | 77. | 79. | 125. | 129. |

CONFIGURATION 5
CDA AIR BLAST LESS 33 0/0 PRIMARY AIR
POWER SETTING 10
READING NO. 252

| | | MICROPHO | E POSITION | | |
|--------------|-----|------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 65. | 66. | 68. | 132. | 137. |
| 63 | 68. | 67. | 70. | 132. | 136. |
| 80 | 63. | 63. | 64. | 137. | 141. |
| 100 | 66. | 67. | 68. | 141. | 142. |
| 125 | 66. | 69. | 73. | 139. | 144. |
| 160 | 66. | 70. | 69. | 143. | 144. |
| 200 | 68. | 69. | 68. | 140. | 144. |
| 250 | 68. | 70. | 72. | 139. | 145. |
| 315 | 72. | 74. | 76. | 137. | 144. |
| 400 | 75. | 75. | 74. | 134. | 140. |
| 500 | 71. | 74. | 75. | 134. | 140. |
| 630 | 73. | 76. | 79. | 134. | 140. |
| 800 | 75. | 77. | 79. | 134. | 140. |
| 1000 | 74. | 77. | 77. | 131. | 138. |
| 1250 | 74. | 78. | 78. | 130. | 139. |
| 1600 | 72. | 74. | 76. | 131. | 139. |
| 2000 | 72. | 75. | 75. | 131. | 137. |
| 2500 | 71. | 75. | 75. | 132. | 136. |
| 3150 | 74. | 77. | 76. | 132. | 133. |
| 4000 | 76. | 78. | 78. | 129. | 133. |
| 5000 | 72. | 74. | 74. | 124. | 129. |
| 6300 | 69. | 72. | 72. | 122. | 125. |
| 8000 | 66. | 71. | 70. | 120. | 121. |
| 10000 | 62. | 67. | 66. | 116. | 117. |
| 12500 | 59. | 64. | 63. | 113. | 116. |
| 16000 | 56. | 59. | 59. | 111. | 114. |
| 20000 | 53. | 53. | 55. | 110. | 113. |
| OCTAVE FREQ | | | | | |
| 63 | 71. | 70. | 73. | 139. | 143. |
| 125 | 71. | 74. | 75. | 146. | 148. |
| 250 | 75. | 76. | 78. | 144. | 149. |
| 500 | 78. | e2. | 81. | 139. | 145. |
| 1000 | 79. | 82. | 83. | 137. | 144. |
| 2000 | 76. | 79. | 80. | 136. | 142. |
| 4000 | 79. | E1. | 81. | 134. | 137. |
| 8000 | 71. | 75. | 75. | 125. | 127. |
| 16000 | 61. | 65. | 65. | 116. | 119. |

CONFIGURATION 5
DDA AIR BLAST LESS 33 0/0 PRIMARY AIR
POWER SETTING 25
READING NO. 255

| | | MICROPHO | NE POSITIO | :N | |
|--------------|-----|-------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 66. | 67. | 67. | 135. | 140. |
| 63 | 68. | 68. | 70. | 134. | 139. |
| 80 | 63. | 63. | 63. | 138. | 142. |
| 100 | 66. | 102. | 91. | 147. | 153. |
| 125 | 66. | 69. | 71. | 141. | 146. |
| 160 | 67. | 71. | 71. | 143. | 145. |
| 200 | 72. | 70. | 70. | 141. | 145. |
| 250 | 69. | 71. | 72. | 141. | 145. |
| 315 | 73. | 74. | 75. | 138. | 145. |
| 400 | 76. | 78. | 75. | 136. | 142. |
| 500 | 73. | 75. | 76. | 136. | 142. |
| 630 | 75. | 77. | 79. | 136. | 142. |
| 800 | 77. | 78. | 78. | 137. | 142. |
| 1000 | 76. | 78. | 78. | 132. | 141. |
| 1250 | 76. | 78. | 79. | 132. | 140. |
| 1600 | 75. | 76. | 78. | 132. | 141. |
| 2000 | 75. | 76. | 76. | 132. | 139. |
| 2500 | 74. | 77. | 77. | 133. | 138. |
| 3150 | 77. | 78. | 78. | 133. | 135. |
| 4000 | 79. | e1. | 80. | 131. | 134. |
| 5000 | 76. | 77. | 77. | 125. | 131. |
| 6300 | 73. | 75. | 74. | 123. | 127. |
| 8000 | 70. | 72. | 73. | 122. | 124. |
| 10000 | 67. | 71. | 70. | 117. | 119. |
| 12500 | 63. | 67. | 65. | 115. | 117. |
| 16000 | 59. | 61. | 61. | 112. | 115. |
| 20000 | 55. | 55. | 56. | 110. | 113. |
| | | | | | |
| OCTAVE FREQ | | | | | |
| 63 | 71. | 71. | 72. | 141. | 145. |
| 125 | 71. | 102. | 91. | 149. | 154. |
| 250 | 76. | 77. | 78. | 145. | 150. |
| 500 | 80. | ٤2. | 82. | 141. | 147. |
| 1000 | 81. | e3 . | 83. | 139. | 146. |
| 2000 | 79. | 81. | 82. | 137. | 144. |
| 4000 | 82. | 84. | 83. | 136. | 138. |
| 8000 | 75. | 78. | 77. | 126. | 129. |
| 16000 | 65. | 68. | 67. | 118. | 120. |

CONFIGURATION 5
CCA AIR BLAST LESS 33 J/U PRIMARY AIR
POWER SETTING 40
READING NJ. 258

| | | MICROPHO | NE POSITIO | N | |
|--------------|-------|-------------|------------|------|------|
| 1/3 JCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 71. | 71. | 71. | 137. | 142. |
| 63 | 82. | £0. | 81. | 135. | 140. |
| 80 | 65. | 64. | 66. | 139. | 142. |
| 100 | 96. | 100. | 78. | 143. | 144. |
| 125 | 14. | 73. | 76. | 142. | 147. |
| 160 | 73. | 74. | 73. | 144. | 147. |
| 200 | 74. | 73. | 74. | 144. | 147. |
| 250 | 74. | 75. | 78. | 142. | 146. |
| 315 | 78. | 78. | ٤٥. | 140. | 147. |
| 400 | 81. | 81. | 81. | 138. | 144. |
| 500 | 15. | 78. | 80. | 138. | 144. |
| 630 | .09 | E1. | 82. | 139. | 144. |
| 800 | 80 • | 81. | 81. | 139. | 144. |
| 1000 | 81. | 81. | 81. | 134. | 143. |
| 1250 | 94. | 85. | 90. | 133. | 143. |
| 1600 | 89. | 87. | 88. | 133. | 143. |
| 200 | 80. | ٤1. | 80. | 134. | 142. |
| 2500 | 82. | 68. | 85. | 134. | 141. |
| 3150 | 79. | 60. | 81. | 135. | 137. |
| 4000 | 81. | 81. | 82. | 133. | 136. |
| 5000 | 79. | .0 9 | 80. | 127. | 135. |
| 6300 | 76. | 77. | 77. | 125. | 130. |
| 3000 | 7.4 . | 76. | 76. | 124. | 126. |
| 10000 | 70. | 73. | 72. | 119. | 121. |
| 12500 | 66. | 69. | 68. | 116. | 118. |
| 16000 | 61. | 63. | 63. | 112. | 115. |
| 20000 | 56. | 57. | 57. | 111. | 114. |
| OCTAVE FREQ | | | | | |
| 63 | 82. | 81. | 82. | 142. | 146. |
| 125 | 96. | 100. | 81. | 148. | 151. |
| 250 | 61. | £1. | 83. | 147. | 151. |
| 500 | 85. | 85. | 86. | 143. | 149. |
| 1000 | 94. | 50. | 91. | 141. | 148. |
| 2000 | 90. | 91. | 90. | 138. | 147. |
| 4000 | £5. | 85. | 86. | 138. | 141. |
| 8000 | 79. | 80. | 80. | 128. | 132. |
| 16000 | 68. | 70. | 69. | 118. | 121. |

CONFIGURATION 5
DDA AIR BLAST LESS 33 0/0 PRIMARY AIR
POWER SETTING 55
READING NU. 261

| | | MICROPHO | NE POSITION | N . | |
|--------------|-----|----------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 70. | 70. | 70. | 137. | 141. |
| 63 | 79. | 78. | 79. | 137. | 142. |
| 80 | 65. | €! | 67. | 139. | 144. |
| 100 | 68. | és. | 71. | 143. | 146. |
| 125 | 74. | 73. | 77. | 144. | 149. |
| 160 | 73. | 74. | 74. | 144. | 147. |
| 200 | 74. | 73. | 74. | 146. | 148. |
| 250 | 75. | 76. | 77. | 143. | 147. |
| 315 | 75. | 75. | 81. | 140. | 148. |
| 400 | 79. | 80. | 80. | 138. | 145. |
| 500 | 79. | 78. | 80. | 138. | 145. |
| 630 | 81. | 81. | 83. | 140. | 146. |
| 800 | 81. | 81. | 82. | 140. | 145. |
| 1000 | 81. | e1. | 81. | 136. | 144. |
| 1250 | 80. | el. | 82. | 134. | 144. |
| 1600 | 80. | εC | 81. | 135. | 144. |
| 2000 | 79. | ٤1. | 80. | 135. | 143. |
| 2500 | 80. | 85. | 82. | 136. | 141. |
| 3150 | 80. | 80. | 81. | 136. | 139. |
| 4000 | 81. | el. | 82. | 134. | 138. |
| 5000 | 80. | 80. | 80. | 128. | 137. |
| 6300 | 77. | 78. | 77. | 127. | 132. |
| 8000 | 75. | 77. | 77. | 125. | 128. |
| 10000 | 72. | 75. | 74. | 120. | 123. |
| 12500 | 68. | 72. | 69. | 117. | 120. |
| 16000 | 63. | 64. | 64. | 112. | 116. |
| 20000 | 57. | 57. | 58. | 110. | 113. |
| OCTAVE FREQ | | | | | |
| 63 | 80. | 75. | 80. | 143. | 147. |
| 125 | 77. | 77. | 79. | 148. | 152. |
| 250 | 81. | e1. | 83. | 148. | 152. |
| 500 | £5. | 85. | 86. | 144. | 150. |
| 1000 | 85. | 86. | 86. | 142. | 149. |
| 2000 | 84. | 87. | 86. | 140. | 148. |
| 4000 | 65. | £5. | 66. | 139. | 143. |
| 8000 | 80. | ε2. | 81. | 130. | 134. |
| 16000 | 69. | 73. | 70. | 119. | 122. |
| | | | . •• | | |

CONFIGURATION 5
DDA AIR BLAST LESS 33 0/0 PRIMARY AIR
POWER SETTING 75
REACING NO. 264

| | | MICROPHO | NE POSITION | | |
|--------------|------------|-------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 70. | 70. | 71. | 139. | 143. |
| 63 | 79. | 79. | 79. | 136. | 142. |
| 80 | 67. | 66. | 68. | 139. | 145. |
| 100 | 68. | 68. | 72. | 144. | 147. |
| 125 | 73. | 74. | 77. | 144. | 148. |
| 160 | 73. | 75. | 75. | 144. | 148. |
| 200 | 75. | 74. | 75. | 147. | 150. |
| 250 | 75. | 76. | 79. | 143. | 147. |
| 315 | 79. | 75. | 80. | 140. | 147. |
| 400 | 79. | £0. | 79. | 138. | 146. |
| 500 | 79. | 78. | 79. | 139. | 145. |
| £30 | 82. | 82. | 84. | 141. | 147. |
| 800 | 81. | €2. | 82. | 142. | 146. |
| 1000 | 82. | 82. | 81. | 137. | 145. |
| 1250 | 81. | €2. | 82. | 135. | 145. |
| 1600 | 81. | 81. | 82. | 135. | 145. |
| 2000 | 82. | 82. | 82. | 135. | 145. |
| 2500 | 83. | e3 . | 82. | 136. | 143. |
| 3150 | 80. | 81. | 81. | 136. | 141. |
| 4000 | 81. | 81. | 81. | 134. | 139. |
| 5000 | 81. | 81. | 81. | 128. | 137. |
| 6300 | 78. | 75. | 79. | 128. | 135. |
| 30.00 | 76. | 75. | 79. | 124. | 129. |
| 10000 | 75. | 75. | 78. | 120. | 124. |
| 12500 | 71. | 75. | 73. | 117. | 122. |
| 16000 | 66. | .83 | 68. | 113. | 117. |
| 20000 | 59. | 61. | 61. | 110. | 113. |
| OCTAVE FREQ | | | | | |
| 63 | 80. | eo. | 0.0 | | |
| 125 | 77. | | 80. | 143. | 148. |
| 250 | 82. | 78. | 80. | 149. | 152. |
| 500 | 65. | 82. | 83. | 149. | 153. |
| 1000 | | 65 • | 86. | 144. | 151. |
| 2000 | 86. 87. | £7. | 86. | 144. | 150. |
| 4000 | 85. | ٤7. | 87. | 140. | 149. |
| 8000 | 81. | £6. | 66. | 139. | 144. |
| 16000 | | 84. | 83. | 130. | 136. |
| 10///0 | 12. | 76. | 74. | 119. | 124. |

CONFIGURATION 5
DDA AIR BLAST LESS 33 0/0 PRIMARY AIR
POWER SETTING 100
READING NU. 267

| | | MICROPHENE | PCSITICN | | |
|--------------|------------|-------------|----------|-------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 72. | 72. | 73. | 140. | 144. |
| 63 | 80. | 75. | 79. | 138. | 144. |
| 80 | 68. | 69. | 70. | 139. | 145. |
| 100 | 70. | 71. | 73. | 145. | 148. |
| 125 | 75. | 76. | 79. | 145. | 150. |
| 160 | 75. | 76. | 76. | 144. | 151. |
| 200 | 75. | 75. | 77. | 150. | 151. |
| 250 | 77. | 76. | 79. | 143. | 148. |
| 315 | 79. | 80. | 80. | 140. | 149. |
| 400 | 79. | .08 | 80. | 139. | 148. |
| 500 | 79. | 78. | 81. | 140. | 147. |
| 630 | 82. | E3 . | 84. | 143. | 149. |
| 800 | 85. | £6. | 85. | 142. | 148. |
| 1000 | 87. | E7. | 86. | 138. | 147. |
| 1250 | 81. | 83. | 83. | 136. | 147. |
| 1600 | 83. | E5 • | 24. | 136. | 147. |
| 2000 | 87. | 68. | 86. | 136. | 146. |
| 2500 | 88. | .93 | 87. | 137. | 145. |
| 3150 | 82. | E4 • | 83. | 137. | 142. |
| 4000 | 83. | ٤5. | 84. | 135. | 141. |
| 5000 | 83. | 84. | 85. | 128. | 139. |
| 6300 | 81. | 85. | 85. | 129. | 138. |
| 8000 | 80. | 85. | 86. | 124. | 132. |
| 10000 | 80. | 86. | 89. | 120 - | 128. |
| 12500 | 79. | E5. | 88. | 117. | 126. |
| 16000 | 75. | 79. | 81. | 113. | 124. |
| 20000 | 70. | 73. | 75. | 110. | 122. |
| OCTAVE FREQ | | | | | |
| 63 | 81. | .08 | 80. | 144. | 149. |
| 125 | 79. | 80. | 81. | 149. | 155. |
| 250 | 82. | 82. | 84. | 151. | 154. |
| 500 | 85. | 86. | 87. | 146. | 153. |
| 1000 | 90. | 90. | 90. | 144. | 152. |
| 2000 | 91. | 92. | 91. | 141. | 151. |
| 4000 | 67. | 89. | 89. | 139. | 146. |
| 8000 | €5. | 50. | 92. | 131. | 139. |
| 16000 | 81. | 86. | 89. | 119. | 129. |
| | | | | | |

CONFIGURATION 6
VAR GEOM CONST DIA SWIRL DCME 0/0 CPEN DZ = 33
POWER SETTING 40
READING NO. 253

| | | MICROPHONE | PCSITICN | | |
|--------------|-------------|------------|----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 64. | 65. | 66. | 136. | 139. |
| 63 | 70. | 68. | 72. | 135. | 142. |
| 80 | 66. | 66. | 66. | 141. | 145. |
| 100 | 63. | 83. | 85. | 153. | 155. |
| 125 | 68 • | 70. | 70. | 136. | 143. |
| 160 | 70. | 71. | 70. | 140. | 142. |
| 200 | 73. | 73. | 72. | 134. | 143. |
| 250 | 71. | 71. | 72. | 135. | 145. |
| 315 | 74. | 73. | 73. | 138. | 145. |
| 400 | 79. | 78. | 76. | 139. | 143. |
| 500 | 79. | 75. | 82. | 139. | 143. |
| 630 | 79. | 79. | 81. | 132. | 143. |
| 800 | 80. | 75. | 80. | 132. | 143. |
| 1000 | 80. | 75. | 80. | 133. | 142. |
| 1250 | 79. | 75. | 80. | 133. | 143. |
| 1600 | 82. | 81. | 82. | 133. | 144. |
| 2000 | 79. | 75. | 80. | 133. | 143. |
| 2500 | 78. | 75. | 79. | 132. | 140. |
| 3150 | 80. | 80. | 80. | 131. | 137. |
| 4000 | 81. | 81. | 81. | 127. | 138. |
| 5000 | 81. | e1. | 81. | 124. | 140- |
| 6300 | 77. | 78. | 78. | 124. | 133. |
| 8000 | 74. | 76. | 76. | 121. | 127. |
| 10000 | 70. | 73. | 74. | 117. | 123. |
| 12500 | 66. | 69. | 71. | 114. | 119. |
| 16000 | 62. | 65. | 66. | 111. | 115. |
| 20000 | 57. | 58. | 60. | 109. | 112. |
| | | | | | |
| OCTAVE FREQ | | | -7 | | |
| 63 | 72. | 71. | 74. | 143. | 147. |
| 125 | 83. | 83. | 85. | 153. | 155. |
| 250 | 78. | 77. | 77. | 141. | 149. |
| 500 | 84. | 83. | 85. | 142. | 148. |
| 1000 | 84. | 84. | 85. | 137. | 147. |
| 2000 | 85. | 85. | 85. | 137. | 147. |
| 4000 | 65. | 85. | 85. | 133. | 143. |
| 8000 | 79. | £1. | 81. | 126. | 134. |
| 16000 | 68. | 71. | 72. | 117. | 121. |

CONFIGURATION 7
VAR GEOM CONST DIA SWIRL DOME 0/0 OPEN DZ = 50
POWER SETTING 10
READING NO. 263

| | | MICROPHONE | PCSITICN | | |
|--------------|-----|------------|----------|------|-------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 64. | 62. | 64. | 133. | 139. |
| 63 | 69. | 68. | 69. | 134. | 138. |
| 80 | 67. | 67. | 66. | 136. | 140 - |
| 100 | 71. | 71. | 71. | 141. | 144. |
| 125 | 66. | 67. | 68. | 134. | 141. |
| 160 | 70. | 71. | 70. | 136. | 138. |
| 200 | 72. | 74. | 71. | 132. | 140 - |
| 250 | 69. | 70. | 71. | 133. | 142. |
| 315 | 72. | 72. | 72. | 132. | 141. |
| 400 | 78. | 78. | 75. | 137. | 138. |
| 500 | 75. | 76. | 80. | 134. | 139. |
| 630 | 78. | 78. | 79. | 128. | 138. |
| 800 | 79. | 79. | 79. | 128. | 139. |
| 1000 | 78. | 77. | 77. | 129. | 138. |
| 1250 | 74. | 75. | 75. | 129. | 139. |
| 1600 | 77. | 77. | 77. | 130. | 139. |
| 2000 | 74. | 74. | 75. | 129. | 137. |
| 2500 | 74. | 74. | 75. | 127. | 136. |
| 3150 | 75. | 75. | 75. | 126. | 132. |
| 4000 | 80. | 79. | 79. | 123. | 134. |
| 5000 | 75. | 76. | 76. | 121. | 130. |
| 6300 | 72. | 73. | 73. | 119. | 125. |
| 8000 | 70. | 71. | 71. | 116. | 122. |
| 10000 | 66. | 67. | 68. | 113. | 117. |
| 12500 | 62. | 63. | 65. | 111. | 114. |
| 16000 | 58. | 59. | 61. | 109. | 112. |
| 20000 | 54. | 54. | 55. | 108. | 111. |
| OCTAVE FREQ | | | | | · |
| 63 | 72. | 71. | 72. | 139. | 144. |
| 125 | 74. | 75. | 75. | 143. | 146. |
| 250 | 76. | 77. | 76. | 137. | 146. |
| 500 | 82. | 83. | 83. | 139. | 143. |
| 1000 | 82. | 82. | 82. | 133. | 143. |
| 2000 | 80. | 80. | 81. | 134. | 142. |
| 4000 | 82. | 82. | 82. | 129. | 137. |
| 8000 | 75. | 76. | 76. | 121. | 127. |
| 16000 | 64. | 65. | 67. | 114. | 117. |

CONFIGURATION 7
VAR GEOM CONST DIA SWIRL DOME O/C CPEN DZ = 50
POWER SETTING 25
READING NO. 287

| | | MICROPHO | NE POSITIO | N | |
|--------------|------------|-------------|------------|------|-------|
| 1/3 UCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 63. | 63. | 64. | 134. | 140. |
| 63 | 67. | 67. | 70. | 134. | 141. |
| 80 | 67. | £6. | 66. | 137. | 141. |
| 100 | 81. | 85. | 76. | 145. | 152. |
| 125 | 67• | 67. | 70. | 136. | 141. |
| 160 | 69. | 71. | 70. | 139. | 140. |
| 200 | 72. | 73. | 73. | 134. | 142. |
| 250 | 70. | 71. | 74. | 137. | 144. |
| 315 | 72. | 73. | 74. | 136. | 144. |
| 400 | 75. | 75. | 76. | 141. | 141. |
| 500 | 77. | 79. | 81. | 138. | 142. |
| 630 | 79. | 79. | 81. | 131. | 141. |
| 800 | eo. | £0. | 80. | 131. | 142. |
| 1000 | 78. | 78. | 79. | 132. | 140 • |
| 1250 | 77. | 77. | 77. | 131. | 141. |
| 160:0 | 79. | 80. | 80. | 132. | 141. |
| 2000 | 77. | 78. | 78. | 131. | 141. |
| 2500 | 76. | 77. | 77. | 129. | 138. |
| 3150 | 77. | 77. | 77. | 129. | 135. |
| 4000 | 80. | .08 | 82. | 125. | 137. |
| 5000 | 79. | 75. | 80. | 123. | 135. |
| 6300 | 75. | 75. | 75. | 121. | 128. |
| 8000 | 71. | 73. | 73. | 118. | 124. |
| 10000 | 68. | 69. | 70. | 115. | 120. |
| 12500 | 63. | 65. | 67. | 113. | 117. |
| 16000 | 60. | 61. | 64. | 110. | 114. |
| 20000 | 55. | 54. | 57. | 109. | 112. |
| OCTAVE FREQ | | | | | |
| 63 | 71. | 70. | 72. | 140. | 145. |
| 125 | 81. | 85. | 78. | 146. | 153. |
| 250 | 76. | 17. | 78. | 141. | 148. |
| 500 | 83. | £4. | 85. | 143. | 146. |
| 1000 | 82. | e3 . | 84. | 136. | 146. |
| 2000 | 82. | 83. | 83. | 136. | 145. |
| 4000 | 84. | 84. | ٤5. | 131. | 141. |
| 8000 | 77. | 78. | 78. | 123. | 130. |
| 16000 | 65. | 67. | 69. | 116. | 120. |

CUNFIGURATION 7
VAR GEOM CONST DIA SWIRL DCME 0/0 CFEN DZ = 50
POWER SETTING 40
READING NO. 251

| | | MICROPHONE | PCSITION | | |
|--------------|-------------|-------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 64. | 64. | 66. | 135. | 139. |
| 63 | 65. | 70. | 70. | 134. | 141. |
| 80 | 66. | 66. | 66. | 136. | 141. |
| 100 | 94. | 52. | 90. | 149. | 156. |
| 125 | 68. | 69. | 71. | 135. | 142. |
| 160 | 69. | 72. | 70. | 140. | 142. |
| 200 | 73. | 74. | 73. | 134. | 143. |
| 250 | 71. | 71. | 73. | 137. | 145. |
| 315 | 73. | 73. | 74. | 138. | 144. |
| 400 | 8Ú. | 79. | 77. | 140. | 142. |
| 500 | 79. | 79. | 82. | 141. | 143. |
| 630 | 79. | 75. | 80. | 132. | 143. |
| 800 | 81. | 81. | 80. | 133. | 144. |
| 1000 | 80. | 80. | 80. | 134. | 142. |
| 1250 | 78. | 75. | 80. | 133. | 142. |
| 1600 | 81. | 81. | 82. | 133. | 143. |
| 2000 | 80. | 80. | 81. | 133. | 144. |
| 2500 | 78. | 78. | 79. | 131. | 140. |
| 3150 | 79. | 80. | 80. | 130. | 137. |
| 4000 | 81. | 81. | 82. | 127. | 138. |
| 5000 | 81. | 81. | 82. | 124. | 137. |
| 6300 | 76. | 17. | 77. | 124. | 131. |
| 8000 | 73. | 75. | 76. | 121. | 127. |
| 10000 | 70. | 71. | 73. | 117. | 122. |
| 12500 | 65. | 68. | 70. | 114. | 119. |
| 16000 | 61. | 65. | 66. | 111. | 115. |
| 20000 | 56. | 57. | 60. | 110. | 112. |
| | | | | | |
| OCTAVE FREQ | | | | | |
| 63 | 72. | 72. | 73. | 140. | 145. |
| 125 | 94. | 92. | 90. | 150. | 156. |
| 250 | 77. | 78. | 78. | 141. | 149. |
| 500 | 84. | 84. | E5 . | 144. | 147. |
| 1000 | E5 . | 85. | 85. | 138. | 148. |
| 2000 | €5. | 85. | 86. | 137. | 147. |
| 4000 | 85. | E5 . | 36. | 132. | 142. |
| 8000 | 78. | e0. | 80. | 126. | 133. |
| 16000 | 67. | 70. | 72. | 117. | 121. |

CONFIGURATION &
VAR GEOM CONST DIA SWIRL DOME O/O OPEN DZ = 67
POWER SETTING 10
READING NO. 261

| | | MICROPHO | NE POSITION | | |
|--------------|-----|------------|-------------|------|------|
| 1/3 OCT FREQ | ì | 2 | 3 | 4 | 5 |
| 50 | 62. | 63. | 64. | 132. | 136. |
| 63 | 66. | 67. | 69. | 131. | 135. |
| 90 | 66. | 66. | 66. | 131. | 136. |
| 100 | 70. | 70. | 71. | 135. | 139. |
| 125 | 67. | 67. | 69. | 132. | 139. |
| 160 | 71. | 71. | 70. | 137. | 139. |
| 200 | 72. | 73. | 70. | 135. | 142. |
| 250 | 69. | 71. | 72. | 134. | 142. |
| 315 | 72. | 71. | 73. | 133. | 139. |
| 400 | 78. | 78. | 75. | 142. | 139. |
| 500 | 76. | 75. | 79. | 133. | 139. |
| 630 | 78. | 77. | 80. | 129. | 138. |
| 800 | 78. | 78. | 79. | 129. | 139. |
| 1000 | 76. | 77. | 77. | 129. | 137. |
| 1250 | 75. | 74. | 75. | 129. | 138. |
| 1600 | 17. | 77. | 77. | 130. | 139. |
| 2000 | 75. | 75. | 75. | 129. | 136. |
| 2500 | 75. | 74. | 75. | 127. | 136. |
| 3150 | 76. | 75. | 75. | 126. | 132. |
| 4000 | 79. | 75. | 79. | 122. | 134. |
| 5000 | 75. | 75. | 76. | 121. | 129. |
| 6300 | 71. | 73. | 72. | 119. | 125. |
| 8000 | 68. | 71. | 70. | 117. | 121. |
| 10000 | 65. | ee. | 66. | 113. | 117. |
| 12500 | 61. | 63. | 64. | 112. | 115. |
| 16000 | 58. | 59. | 61. | 110. | 113. |
| 20000 | 54. | 53. | 55. | 110. | 112. |
| OCTAVE FREQ | | | | | |
| 63 | 70. | 70. | 72. | 136. | 140. |
| 125 | 74. | 74. | 75. | 140. | 144. |
| 250 | 76. | 77. | 77. | 139. | 146. |
| 500 | 82. | 83. | 83. | 143. | 143. |
| 1000 | 81. | 81. | 82. | 134. | 143. |
| 2000 | 81. | 80. | 81. | 134. | 142. |
| 4000 | 82. | 82. | 82. | 128. | 137. |
| 8000 | 73. | 76. | 75. | 122. | 127. |
| 16000 | 63. | 65. | 66. | 116. | 118. |

CONFIGURATION E
VAR GEOM CONST DIA SWIRL DOME 0/0 OPEN DZ = 67
POWER SETTING 25
READING NO. 285

| | | MICROFHO | NE PCSITICN | | |
|--------------|-----|------------|-------------|------|--------------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 63. | 65. | 66. | 133. | 149. |
| 63 | 67. | 65. | 68. | 131. | 148. |
| 80 | 66. | 66. | 66. | 134. | 149. |
| 100 | 70. | 70. | 70. | 138. | 153. |
| 125 | 68. | 68. | 70. | 134. | 150. |
| 160 | 69. | 71. | 70. | 137. | 151. |
| 200 | 72. | 73. | 71. | 137. | 153. |
| 250 | 70. | 71. | 73. | 137. | 153. |
| 315 | 72. | 72. | 73. | 136. | 152. |
| 400 | 79. | 78. | 76. | 141. | 151. |
| 500 | 77. | 78. | 80. | 137. | 151. |
| 630 | 78. | 78. | 80. | 131. | 151. |
| 800 | 80. | 80. | 80. | 132. | 152. |
| 1000 | 79. | 78. | 80. | 132. | 150. |
| 1250 | 77. | 77. | 77. | 131. | 150. |
| 1600 | 82. | 82. | 82. | 132. | 152. |
| 2000 | 77. | 78. | 79. | 131. | 151. |
| 2500 | 76. | 77. | 78. | 130. | 148. |
| 3150 | 78. | 77. | 78. | 128. | 144. |
| 4000 | 80. | E1. | 82. | 125. | 146. |
| 5000 | 79. | 79. | 80. | 123. | 143. |
| 6300 | 75. | 75. | 75. | 122. | 139. |
| 8000 | 71. | 73. | 73. | 119. | 134. |
| 10000 | 68. | 68. | 69. | 115. | 130. |
| 12500 | 63. | 64. | 66. | 113. | 127. |
| 16000 | 60. | 60. | 63. | 109. | 123. |
| 20000 | 54. | 54. | 57. | 108. | 121. |
| | | | | | |
| OCTAVE FREQ | 7.6 | 33 | 70 | 130 | 153. |
| 63 | 70. | 72. | 72. | 138. | |
| 125 | 74. | 75. | 75. | 141. | 156. |
| 250 | 76. | 77. | 77. | 141. | 157. |
| 500 | 83. | 83. | 84. | 143. | 156. |
| 1000 | 84. | 83. | 84. | 136. | 156. 155. |
| 2000 | 84. | 84. | 85 . | 136. | |
| 4000 | 84. | £4. | 85. 70 | 131. | 149. |
| 8000 | 77. | 78. | 78. | 124. | 141. |
| 16000 | 65. | 66. | 68. | 115. | 129. |

CONFIGURATION 8
VAR GEOM CONST DIA SWIRL DOME 0/0 OPEN DZ = 67
POWER SETTING 40
READING NO. 256

| | | MICREPHO | NE POSITIO | N | |
|--------------|-----|------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 63. | 63. | 65. | 132. | 139. |
| 63 | 69. | 69. | 69. | 133. | 139. |
| 80 | 66. | 65. | 66. | 136. | 140. |
| 100 | 77. | 77. | 79. | 144. | 148. |
| 125 | 68. | 68. | 72. | 135. | 141. |
| 160 | 70. | 71. | 71. | 140. | 142. |
| 200 | 73. | 73. | 72. | 136. | 143. |
| 250 | 71. | 73. | 73. | 137. | 145. |
| 315 | 74. | 72. | 73. | 137. | 144. |
| 400 | 78. | 78. | 76. | 142. | 143. |
| 500 | 77. | 75. | 81. | 141. | 143. |
| 630 | 79. | .08 | 81. | 133. | 143. |
| 800 | 82. | 81. | 81. | 134. | 144. |
| 1000 | 80. | 80. | 81. | 134. | 142. |
| 1250 | 78. | 79. | 79. | 133. | 142. |
| 1600 | 81. | 82. | 82. | 133. | 143. |
| 2000 | 80. | 81. | 81. | 133. | 144. |
| 2500 | 77. | 78. | 79. | 132. | 141. |
| 3150 | 79. | 79. | 80. | 130. | 137. |
| 4000 | 82. | 81. | 82. | 127. | 137. |
| 5000 | 81. | 81. | 82. | 124. | 136. |
| 6300 | 77. | 77. | 77. | 124. | 132. |
| 8000 | 73. | 75. | 75. | 121. | 127. |
| 10000 | 70. | 71. | 72. | 117. | 122. |
| 12500 | 65. | 67. | 68. | 115. | 119. |
| 16000 | 62. | 64. | 66. | 111. | 115. |
| 20000 | 56. | 57. | 60. | 109. | 112. |
| | | | | | |
| OCTAVE FREQ | | | | | |
| 63 | 71. | 71. | 72. | 139. | 144. |
| 125 | 78. | 78. | 80. | 146. | 150. |
| 250 | 78. | 77. | 77. | 141. | 149. |
| 500 | 83. | 84. | 85. | 145. | 148. |
| 1000 | 85. | E5. | 85. | 138. | 148. |
| 2000 | 84. | E5. | 86. | 137. | 148. |
| 4000 | 86. | 85. | 86. | 132. | 141. |
| 8000 | 79. | 80. | 80. | 126. | 134. |
| 16000 | 67. | 69. | 71. | 117. | 121. |

CONFIGURATION 8

VAR GEOM CONST DIA SWIRL DOME 0/0 OPEN DZ = 67

POWER SETTING 75

READING NO. 258

| | | MICROPHO | NE POSITION | | |
|--------------|-----|-------------|-------------|--------------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 66. | 68 • | 67. | 136. | 141. |
| 63 | 69. | 75. | 73. | 135. | 140. |
| 80 | 66. | 65. | 66. | 136. | 141. |
| 100 | 75. | 74. | 78. | 144. | 148. |
| 125 | 77• | 75. | 77. | 137. | 143. |
| 160 | 73. | 75. | 76. | 143. | 144. |
| 200 | 75. | 75. | 76. | 142. | 147. |
| 250 | 75. | 75. | 78. | 140. | 146. |
| 315 | 79. | 78. | 80. | 138. | 145. |
| 400 | 81. | 80. | 80. | 142. | 146. |
| 500 | 78. | 78. | 80. | 142. | 144. |
| 630 | 82. | 82. | 82. | 135. | 145. |
| 800 | 83. | 82. | 83. | 137. | 146. |
| 1000 | 81. | 81. | 82. | 137. | 144. |
| 1250 | 80. | 82. | 82. | 135. | 144. |
| 1600 | 84. | 85. | 84. | 135. | 145. |
| 2000 | 87. | ٤7. | £6. | 135. | 148. |
| 2500 | 90. | 84. | 81. | 134. | 142. |
| 3150 | 81. | . 03 | 81. | 131. | 139. |
| 4000 | 82. | 82. | 82. | 129. | 139. |
| 5000 | 82. | 82. | 82. | 125. | 138. |
| 6300 | 79. | 80. | 79. | 127. | 135. |
| 8000 | 75. | 78. | 79. | 121. | 130. |
| 10000 | 73. | 77. | 77. | 118. | 125. |
| 12500 | 69. | 75. | 74. | 115. | 122. |
| 16000 | 66. | 70. | 70. | 111. | 116. |
| 20000 | 60. | 64. | 64. | 108. | 112. |
| OCTAVE FREQ | | | | | |
| 63 | 72. | 76. | 75. | 140. | 145 |
| 125 | 80. | 79. | 82. | | 145. |
| 250 | 82. | 81. | 83. | 147. | 150. |
| 500 | 85. | 85. | 86. | 145. | 151. |
| 1000 | 86. | 86. | 87. | 145. | 150. |
| 2000 | 92. | 90. | 89. | 141. 139. | 150. |
| 4000 | 86. | 86. | 86. | 134. | 150. |
| 8000 | 81. | 83. | | 128. | 143. |
| 16000 | | | 83. 76 | | 137. |
| 1 6000 | 71. | 76. | 76. | 117. | 123. |

CONFIGURATION 5
VAR GEOM CONST DIA SWIRL DOME 0/0 OPEN DZ = 83
POWER SETTING 10
READING NO. 275

| | | MICROPHO | NE POSITIO | N | |
|--------------|------|------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 62. | 62. | 65. | 131. | 134. |
| 63 | 66. | 67. | 70. | 130. | 136. |
| 80 | 64. | 65. | 64. | 132. | 136. |
| 100 | 101. | 57. | 73. | 136. | 140. |
| 125 | 67. | 66. | 69. | 132. | 138. |
| 160 | 69. | 65. | 70. | 137. | 139. |
| 200 | 69. | 69. | 69. | 138. | 143. |
| 250 | 67. | 68. | 70. | 133. | 140. |
| 315 | 71. | 72. | 72. | 137. | 140. |
| 400 | 76. | 74. | 74. | 138. | 139. |
| 500 | 7. | 75. | 76. | 132. | 139. |
| 630 | 77. | 75. | 76. | 129. | 139. |
| 800 | 77. | 77. | 78. | 129. | 139. |
| 1000 | 75. | 76. | 77. | 129. | 138. |
| 1250 | 75. | 75. | 75. | 129. | 137. |
| 1600 | 77. | 78. | 78. | 130. | 138. |
| 2000 | 74. | 74. | 75. | 128. | 137. |
| 2500 | 74. | 74. | 75. | 127. | 135. |
| 3150 | 75. | 74. | 74. | 126. | 131. |
| 4000 | 78. | 78. | 79. | 122. | 133. |
| 5000 | 75. | 75. | 76. | 121. | 129. |
| 6300 | 72. | 73. | 72. | 119. | 125. |
| 8000 | 69. | 70. | 69. | 117. | 122. |
| 10000 | 66. | 67. | 65. | 113. | 117. |
| 12500 | 61. | 62. | 63. | 112. | 116. |
| 16000 | 57. | 59. | 60. | 111. | 114. |
| 20000 | 54. | 53. | 55. | 110. | 113. |
| OCTAVE FREQ | | | | | |
| 63 | 69. | 70. | 72. | 136. | 140. |
| 125 | 101. | 97. | 76. | 140. | 144. |
| 250 | 74. | 75. | 75. | 141. | 146. |
| 500 | 81. | 79. | 80. | 139. | 144. |
| 1000 | 81. | 81. | 82. | 134. | 143. |
| 2000 | 80. | 81. | 81. | 133. | 142. |
| 4000 | 81. | E1. | 82. | 128. | 136. |
| 8000 | 74. | 75. | 74. | 122. | 127. |
| 16000 | 63. | 64. | 65. | 116. | 119. |
| | | | | | |

CONFIGURATION 10
VAR GEOM CONST DIA SWIRL DCME 0/0 CPEN DZ = 100
POWER SETTING 10
READING NO. 278

| | | MICROPHEN | PCSITION | | |
|----------------|------------|--------------|----------|--------------|--------------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 62. | 62. | 63. | 129. | 137. |
| 63 | 67. | 68. | 67. | 128. | 135. |
| 80 | 65. | 65. | 66. | 130. | 137. |
| 100 | 71. | 70. | 71. | 133. | 139. |
| 125 | 67. | 66. | 68. | 131. | 138. |
| 160 | 69. | 65. | 69. | 138. | 140. |
| 200 | 70. | 70. | 70. | 136. | 141. |
| 250 | 68. | 72. | 72. | 132. | 140. |
| 315 | 71. | 71. | 73. | 136. | 141. |
| 400 | 77. | 7 6 . | 74. | 137. | 137. |
| 500 | 75. | 77. | 78. | 133. | 139. |
| 630 | 77. | 77. | 79. | 129. | 139. |
| 800 | 77. | 77. | 78. | 129. | 139. |
| 1000 | 75. | 76. | 77. | 129. | 138. |
| 1250 | 74. | 75. | 75. | 129. | 139. |
| 1600 | 79. | 75. | 79. | 130. | 139. |
| 2000 | 74. | 74. | 75. | 129. | 137. |
| 2500 | 74. | 74. | 75. | 127. | 136. |
| 3150 | 74. | 74. | 74. | 126. | 132. |
| 4000 | 78. | 75. | 78. | 122. | 133. |
| 5000 | 75. | 77. | 75. | 121. | 129. |
| 6300 | 72. | 73. | 72. | 118. | 124. |
| 8000 | 70. | 70. | 70. | 116. | 122. |
| 10000 | 66. | £7. | 66. | 113. | 117. |
| 12500 | 61. | 62. | 64. | 112. | 116. |
| 16000 | 58. | 58. | 60. | 110. | 114. |
| 20000 | 54. | 53. | 55. | 110. | 113. |
| 067445 5050 | | | | | |
| OCTAVE FREQ 63 | 70. | 70. | 70. | 134. | 141. |
| | | | | | |
| 125 | 74. | 73. | 74. | 140. | 144. |
| 250 | 75. | 76. | 77. | 140. | 145- |
| 500 | 81. | £1. | 82. | 139. | 143. |
| 1000 | 80. | E1. | 82. | 134. | 143. |
| 2000 4000 | 81. 81. | 81. | 82. | 134. | 142. |
| 8000 | | 82. 75 | 81. | 128. 121. | 136. 127. |
| | 75. | 75. | 75• | | |
| 16000 | 63. | 64. | 66. | 116. | 119. |

CONFIGURATION 11
VAR GEOM EXT LENGTH VAR GEOM 0/0 OPEN DZ = 0
POWER SETTING 40
REACING NO. 345

| 1/3 OCT FREQ 1 2 3 4 5 50 65. 6E. 67. 136. 141. 63 71. 75. 74. 133. 141. 80 65. 67. 67. 138. 142. 100 68. 68. 70. 140. 143. 125 75. 72. 74. 139. 146. 160 73. 74. 73. 144. 148. 200 75. 76. 74. 142. 149. 250 77. 76. 78. 143. 149. 315 79. 80. 81. 144. 151. 400 80. 82. 81. 144. 149. 500 81. 61. 82. 142. 149. 630 63. 83. 84. 134. 149. 800 83. 83. 84. 134. 149. 800 83. 83. 84. 134. 149. 1250 81. 81. 82. 142. 149. 250 81. 81. 82. 142. 135. 145. 1250 81. 81. 82. 135. 145. 1250 81. 81. 82. 135. 145. 1250 81. 83. 83. 84. 138. 150. 1000 82. 83. 84. 133. 147. 1250 81. 81. 82. 135. 145. 1250 81. 83. 83. 84. 133. 145. 2000 80. 87. 83. 133. 145. 2000 80. 87. 83. 133. 145. 2500 81. 86. 83. 132. 142. 3150 81. 86. 83. 132. 142. 3150 81. 86. 83. 132. 142. 3150 81. 82. 82. 125. 133. 8000 76. 80. 80. 80. 121. 128. 10000 76. 78. 78. 118. 123. 12500 72. 77. 51. 82. 125. 133. 8000 76. 78. 78. 118. 123. 1250 72. 77. 77. 146. 151. 2000 64. 64. 64. 69. 109. 122. | | | MICROPHEN | E PCSITICN | | |
|--|--------------|------------|-------------|------------|-------|-------|
| 63 71. 75. 74. 133. 141. 80 65. 67. 67. 138. 142. 100 68. 68. 70. 140. 143. 125 75. 72. 74. 139. 146. 160 73. 74. 73. 144. 148. 200 75. 76. 74. 73. 144. 149. 250 77. 76. 78. 143. 149. 315 75. 80. 81. 144. 151. 400 80. 82. 81. 144. 149. 500 81. 61. 82. 142. 149. 630 63. 83. 84. 134. 149. 800 83. 83. 84. 136. 150. 1000 82. 83. 84. 138. 150. 1000 82. 83. 84. 135. 145. 2000 80. 82. 83. 84. 138. 150. 1000 82. 83. 84. 135. 145. 2000 81. 81. 82. 135. 145. 2500 81. 83. 83. 84. 139. 147. 2500 81. 83. 83. 133. 145. 2500 81. 83. 83. 133. 145. 2500 81. 86. 83. 132. 142. 3150 81. 83. 82. 131. 139. 4000 80. 62. 83. 128. 138. 5000 78. 82. 82. 125. 137. 6300 77. 61. 82. 125. 133. 8000 76. 80. 80. 121. 128. 10000 70. 70. 70. 71. 110. 122. 20000 64. 64. 64. 64. 109. 122. OCTAVE FREQ 63 73. 76. 75. 141. 146. 151. 250 82. 83. 83. 148. 155. 500 66. 87. 87. 146. 154. 1000 67. 67. 87. 88. 145. 153. 2000 65. 87. 87. 146. 154. | 1/3 UCT FREQ | 1 | 2 | | 4 | 5 |
| 63 | 50 | 65. | 68. | 67. | 136. | 141. |
| 100 68. 68. 70. 140. 143. 125 75. 72. 74. 139. 146. 160 73. 74. 73. 144. 148. 200 75. 76. 74. 74. 139. 144. 148. 200 75. 76. 76. 74. 142. 149. 250 77. 76. 78. 143. 149. 315 75. 80. 81. 144. 151. 400 80. 82. 81. 144. 149. 500 81. 61. 82. 142. 149. 630 83. 83. 84. 134. 149. 800 83. 83. 84. 134. 149. 800 83. 83. 84. 134. 149. 150. 1000 82. 83. 83. 84. 143. 147. 1250 81. 81. 82. 135. 145. 1250 81. 81. 82. 135. 145. 1250 81. 83. 83. 134. 145. 2000 80. 87. 83. 133. 133. 145. 2000 80. 87. 83. 133. 133. 145. 2500 81. 86. 83. 132. 142. 3150 81. 86. 83. 132. 142. 3150 81. 86. 83. 132. 142. 3150 81. 86. 83. 132. 142. 3150 81. 86. 83. 132. 142. 3150 81. 86. 83. 132. 142. 3150 81. 86. 83. 132. 142. 3150 81. 86. 83. 128. 138. 5000 78. 82. 82. 125. 137. 6300 77. 81. 82. 125. 133. 8000 76. 80. 80. 80. 121. 128. 120. 125. 123. 12500 72. 75. 74. 115. 123. 12500 72. 75. 74. 115. 123. 12500 72. 75. 74. 115. 123. 12500 72. 75. 74. 115. 123. 12500 72. 75. 74. 115. 123. 12000 64. 64. 64. 64. 109. 122. 20000 64. 64. 64. 64. 109. 122. 20000 65. 87. 88. 149. 155. 500 66. 87. 87. 146. 154. 159. 2000 65. 89. 88. 138. 149. 155. 2000 65. 89. 88. 138. 149. 155. 2000 65. 89. 88. 138. 149. 2000 65. 87. 87. 87. 133. 143. 8000 81. 85. 87. 87. 133. 143. 8000 81. 85. 87. 87. 133. 143. 8000 81. 85. 87. 87. 133. 143. 8000 81. 85. 87. 87. 133. 143. 8000 81. 85. 87. 87. 133. 143. 8000 81. 85. 87. 87. 133. 143. 8000 81. 85. 87. 87. 133. 143. 8000 81. 85. 87. 87. 133. 143. 8000 81. 85. 87. 88. 138. 149. 155. 87. 87. 87. 133. 143. 8000 81. 85. 87. 87. 87. 133. 143. 8000 81. 85. 87. 87. 87. 133. 143. 8000 81. 85. 87. 87. 87. 133. 143. 8000 81. 85. 87. 87. 87. 133. 143. 8000 81. 85. 87. 87. 87. 133. 143. 8000 81. 85. 87. 87. 87. 133. 143. 8000 81. 85. 87. 87. 87. 133. 143. 8000 81. 85. 87. 87. 87. 133. 143. 8000 81. 85. 87. 87. 87. 133. 143. 8000 81. 85. 87. 87. 87. 87. 133. 143. 8000 81. 85. 87. 87. 87. 133. 143. 8000 81. 85. 87. 87. 87. 133. 143. 8000 81. 85. 87. 87. 87. 133. 143. 8000 | 63 | 71. | 75. | 74. | | |
| 100 68. 68. 70. 140. 143. 125 75. 72. 74. 139. 146. 160 73. 74. 73. 144. 148. 200 75. 76. 74. 142. 149. 250 77. 76. 78. 143. 149. 315 75. 80. 81. 144. 151. 400 80. 82. 81. 144. 149. 500 81. 61. 82. 142. 149. 630 63. 83. 83. 84. 134. 149. 800 83. 83. 84. 134. 149. 800 83. 83. 84. 134. 147. 1250 81. 81. 82. 143. 147. 1250 81. 81. 82. 135. 145. 1600 81. 83. 63. 135. 145. 2000 80. 87. 83. 133. 133. 145. 2000 80. 87. 83. 83. 134. 139. 4000 80. 87. 83. 133. 133. 145. 2500 81. 86. 83. 132. 142. 3150 81. 86. 83. 132. 142. 3150 81. 86. 83. 132. 142. 3150 81. 83. 82. 131. 139. 4000 80. 62. 83. 128. 138. 5000 78. 82. 82. 125. 137. 6300 77. 61. 82. 125. 133. 8000 76. 80. 80. 80. 121. 128. 10000 76. 78. 78. 78. 118. 123. 12500 73. 75. 74. 115. 123. 16000 70. 70. 70. 71. 110. 122. 20000 64. 64. 64. 64. 109. 122. | 80 | 65. | 67. | 67. | 138. | 142. |
| 125 | 100 | 68. | 68 . | 70. | 140 . | |
| 160 73. 74. 73. 144. 148. 200 75. 76. 74. 142. 149. 250 77. 76. 78. 143. 149. 315 79. 80. 81. 144. 151. 400 80. 82. 81. 144. 149. 500 81. 61. 82. 142. 149. 630 63. 83. 83. 84. 134. 149. 800 82. 83. 84. 138. 150. 1000 82. 83. 84. 138. 150. 1000 82. 83. 64. 143. 147. 1250 81. 81. 82. 135. 145. 1600 81. 83. 63. 134. 145. 2000 80. 87. 83. 133. 145. 2500 81. 86. 83. 132. 145. 2500 81. 86. 83. 132. 142. 3150 81. 86. 83. 132. 142. 3150 81. 83. 82. 131. 139. 4000 80. 62. 83. 82. 125. 137. 6300 77. 61. 82. 125. 137. 6300 76. 80. 80. 80. 121. 128. 10000 76. 78. 78. 78. 118. 123. 12500 72. 75. 74. 115. 123. 16000 70. 70. 70. 71. 110. 122. 20000 64. 64. 64. 64. 109. 122. OCTAVE FREQ 63 73. 76. 75. 141. 146. 151. 250 82. 83. 83. 148. 155. 500 66. 67. 87. 146. 151. 250 82. 83. 83. 148. 155. 500 66. 67. 87. 146. 151. 250 82. 83. 83. 148. 155. 500 66. 67. 87. 146. 151. | 125 | 75. | 72. | 74. | 139. | |
| 200 75. 76. 74. 142. 149. 250 77. 76. 78. 143. 149. 315 79. 80. 81. 144. 151. 400 80. 82. 81. 144. 149. 500 81. 61. 82. 142. 149. 630 63. 83. 83. 84. 134. 149. 800 83. 83. 84. 138. 150. 1000 81. 61. 82. 135. 145. 1600 81. 81. 82. 135. 145. 1600 81. 83. 83. 133. 145. 2000 80. 87 83. 133. 145. 2500 81. 86. 83. 132. 142. 3150 81. 86. 83. 132. 142. 3150 81. 86. 83. 132. 142. 3150 81. 83. 82. 131. 139. 4000 80. 62. 83. 128. 138. 5000 78. 82. 82. 125. 137. 6300 77. 61. 82. 125. 137. 6300 76. 78. 78. 78. 118. 123. 12500 72. 75. 74. 115. 123. 16000 70. 70. 70. 71. 110. 122. 2000 64. 64. 64. 64. 109. 122. OCTAVE FREQ 63 73. 76. 75. 141. 146. 125 78. 77. 77. 146. 151. 250 82. 83. 83. 148. 155. 500 66. 67. 67. 17. 146. 154. 1000 67. 67. 88. 145. 153. 2000 65. 89. 88. 138. 149. | 160 | 73. | 74. | 73. | 144. | 148. |
| 315 | 200 | 75. | 76. | 74. | 142. | |
| 400 80. 82. 81. 144. 149. 500 81. 61. 82. 142. 149. 630 63. 83. 84. 134. 149. 800 83. 83. 84. 138. 150. 1000 82. 83. 84. 143. 147. 1250 81. 81. 82. 135. 145. 1600 81. 83. 83. 134. 145. 2000 80. 87. 83. 133. 145. 2500 81. 86. 83. 132. 142. 3150 81. 83. 82. 131. 139. 4000 80. 62. 83. 128. 138. 5000 78. 82. 82. 125. 137. 6300 77. 61. 82. 125. 137. 6300 76. 80. 80. 80. 121. 128. 10000 76. 78. 78. 118. 123. 12500 72. 75. 74. 115. 123. 16000 70. 70. 71. 110. 122. 20000 64. 64. 64. 64. 109. 122. OCTAVE FREQ 63 73. 76. 75. 141. 146. 151. 250 82. 83. 83. 148. 155. 500 66. 87. 87. 146. 154. 1000 67. 67. 88. 145. 153. 2000 65. 89. 88. 138. 149. 4000 81. 65. 87. 87. 133. 143. 8000 81. 65. 87. 87. 127. 135. | | | 76. | 78. | 143. | 149. |
| 500 81. £1. 82. 142. 149. 630 £3. £3. 84. 134. 149. 800 £3. £3. £4. 138. 150. 1000 £2. £3. £4. 143. 147. 1250 £1. £1. £2. 135. 145. 1600 £1. £3. £3. 134. 145. 2000 £0. £7. £3. 133. 145. 2000 £0. £7. £3. 133. 145. 2500 £1. £6. £3. 132. 142. 3150 £1. £6. £3. 132. 142. 3150 £1. £2. £3. 128. 138. 5000 £8. £2. £2. £3. 128. 138. 5000 £7. £1. £2. £2. 137. 146. 121. 128. 12500 £7. £7. £7. £7. £7. £7. £7. £7. <td< td=""><td>315</td><td>79.</td><td>.09</td><td>81.</td><td>144.</td><td>151.</td></td<> | 315 | 79. | .0 9 | 81. | 144. | 151. |
| 630 | 400 | 80. | 82. | 81. | 144. | 149. |
| 630 | 500 | 81. | ٤1. | 82. | 142. | 149. |
| 1000 82. 83. 84. 143. 147. 1250 81. 81. 82. 135. 145. 1600 81. 83. 83. 134. 145. 2000 80. 87. 83. 132. 145. 2500 81. 86. 83. 132. 142. 3150 81. 83. 82. 131. 139. 4000 80. 62. 83. 128. 138. 5000 78. 82. 82. 125. 137. 6300 77. 61. 82. 125. 137. 6300 76. 80. 80. 121. 128. 10000 76. 78. 78. 78. 118. 123. 12500 72. 75. 74. 115. 123. 16000 70. 70. 70. 71. 110. 122. 20000 64. 64. 64. 64. 109. 122. OCTAVE FREQ 63 73. 76. 75. 141. 146. 151. 250 82. 83. 83. 148. 155. 500 66. 87. 87. 146. 154. 1000 87. 87. 88. 145. 153. 2000 85. 89. 88. 138. 149. 4000 85. 89. 88. 138. 149. | 630 | £3. | 83. | 84. | 134. | 149. |
| 1250 81. 81. 82. 135. 145. 1600 81. 83. 83. 134. 145. 2000 80. 87. 83. 133. 145. 2500 81. 86. 83. 132. 142. 3150 81. 83. 82. 131. 139. 4000 80. 82. 83. 128. 138. 5000 78. 82. 82. 125. 137. 6300 77. 81. 82. 125. 137. 6300 76. 80. 80. 121. 128. 10000 76. 78. 78. 118. 123. 12500 73. 75. 74. 115. 123. 16000 70. 70. 70. 71. 110. 122. 20000 64. 64. 64. 64. 109. 122. OCTAVE FREQ 63 73. 76. 75. 141. 146. 151. 250 82. 83. 83. 148. 155. 500 66. 87. 87. 146. 154. 1000 87. 87. 88. 145. 153. 2000 85. 89. 88. 138. 149. 4000 85. 89. 88. 138. 149. 4000 85. 89. 88. 138. 149. | 800 | | 83. | 84. | 138. | 150. |
| 1600 81. 83. 83. 134. 145. 2000 80. 87. 83. 133. 145. 2500 81. 86. 83. 132. 142. 3150 81. 83. 82. 131. 139. 4000 80. 82. 83. 128. 138. 5000 78. 82. 82. 125. 137. 6300 77. 81. 82. 125. 133. 8000 76. 80. 80. 121. 128. 10000 76. 78. 78. 78. 118. 123. 12500 73. 75. 74. 115. 123. 16000 70. 70. 70. 71. 110. 122. 20000 64. 64. 64. 64. 109. 122. OCTAVE FREQ 63 73. 76. 75. 141. 146. 151. 250 82. 83. 83. 148. 155. 500 86. 87. 87. 146. 154. 1000 87. 87. 88. 145. 153. 2000 85. 89. 88. 138. 149. 4000 85. 89. 88. 138. 149. | | | | 84. | 143. | 147. |
| 2000 80. 87. 83. 133. 145. 2500 81. 86. 83. 132. 142. 3150 81. 83. 82. 131. 139. 4000 80. 62. 83. 128. 138. 5000 78. 82. 82. 125. 137. 6300 77. 61. 82. 125. 133. 8000 76. 80. 80. 80. 121. 128. 10000 76. 78. 78. 118. 123. 12500 72. 75. 74. 115. 123. 16000 70. 70. 71. 110. 122. 20000 64. 64. 64. 64. 109. 122. OCTAVE FREQ 63 73. 76. 75. 141. 146. 125 78. 77. 77. 146. 151. 250 82. 63. 83. 148. 155. 500 66. 67. 87. 146. 154. 1000 67. 67. 87. 88. 145. 153. 2000 65. 89. 88. 138. 149. 4000 65. 89. 88. 138. 149. 4000 65. 87. 67. 133. 143. 8000 81. 65. 87. 67. 133. 143. | | | | 82. | | 145. |
| 2000 80. 87. 83. 133. 145. 2500 81. 86. 83. 132. 142. 3150 81. 83. 82. 131. 139. 4000 80. 62. 83. 128. 138. 5000 78. 82. 82. 125. 137. 6300 77. 61. 82. 125. 133. 8000 76. 80. 80. 80. 121. 128. 10000 76. 78. 78. 118. 123. 12500 72. 75. 74. 115. 123. 16000 70. 70. 71. 110. 122. 20000 64. 64. 64. 64. 109. 122. OCTAVE FREQ 63 73. 76. 75. 141. 146. 125 78. 77. 77. 146. 151. 250 82. 63. 83. 148. 155. 500 66. 67. 87. 146. 154. 1000 67. 67. 87. 88. 145. 153. 2000 65. 89. 88. 138. 149. 4000 65. 89. 88. 138. 149. 4000 65. 87. 67. 133. 143. 8000 81. 65. 87. 67. 133. 143. | 1600 | 81. | 83. | £3. | 134. | 145. |
| 2500 81. 86. 83. 132. 142. 3150 81. 83. 82. 131. 139. 4000 80. 62. 83. 128. 138. 5000 78. 82. 82. 125. 137. 6300 77. 61. 82. 125. 133. 8000 76. 80. 80. 121. 128. 10000 76. 78. 78. 78. 118. 123. 12500 72. 75. 74. 115. 123. 16000 70. 70. 71. 110. 122. 20000 64. 64. 64. 64. 109. 122. OCTAVE FREQ 63 73. 76. 75. 141. 146. 125 78. 77. 77. 146. 151. 250 82. 63. 83. 148. 155. 500 66. 67. 67. 146. 154. 1000 67. 67. 87. 88. 145. 153. 2000 65. 89. 88. 138. 149. 4040 65. 87. 67. 133. 143. 8000 81. 65. 85. 127. 135. | | | | | 133. | 145. |
| 4000 80. E2. 83. 128. 138. 5000 78. 82. 82. 125. 137. 6300 77. E1. 82. 125. 133. 8000 76. 80. 80. 121. 128. 10000 76. 78. 78. 78. 118. 123. 12500 72. 75. 74. 115. 123. 16000 70. 70. 70. 71. 110. 122. 20000 64. 64. 64. 64. 109. 122. COCTAVE FREQ 63 73. 76. 75. 141. 146. 151. 250 82. 83. 83. 148. 155. 500 66. 87. 87. 87. 146. 154. 1000 87. 87. 87. 88. 145. 153. 2000 85. 85. 85. 127. 135. | | | | | | |
| 5000 78. 82. 82. 125. 137. 6300 77. 61. 82. 125. 133. 8000 76. 80. 80. 121. 128. 10000 76. 78. 78. 118. 123. 12500 72. 75. 74. 115. 123. 16000 70. 70. 71. 110. 122. 20000 64. 64. 64. 64. 109. 122. OCTAVE FREQ 63 73. 76. 75. 141. 146. 125 78. 77. 77. 146. 151. 250 82. 83. 83. 148. 155. 500 66. 87. 87. 146. 154. 1000 67. 87. 88. 145. 153. 2000 65. 89. 88. 138. 149. 4000 65. 89. 88. 138. 149. 4000 65. 87. 87. 133. 143. 8000 81. 85. 85. 127. 135. | | | | 82. | 131. | 139. |
| 6300 77. £1. 82. 125. 133. 8000 76. 80. 80. 121. 128. 10000 76. 78. 78. 118. 123. 12500 73. 75. 74. 115. 123. 16000 70. 70. 71. 110. 122. 20000 £4. £4. £4. £4. 109. 122. OCTAVE FREQ £3 73. 76. 75. 141. 146. 125 78. 77. 77. 146. 151. 250 82. £3. 83. 148. 155. 500 £6. £7. £7. 88. 145. 154. 1000 £7. £7. 88. 145. 153. 2000 £5. £9. 88. 138. 149. 4000 £5. £9. 88. 138. 149. 4000 £5. £7. £7. 133. 143. 8000 81. £5. 85. 127. 135. | | | | | 128. | 138. |
| 8000 76. 80. 80. 121. 128. 10000 76. 78. 78. 118. 123. 12500 72. 75. 74. 115. 123. 16000 70. 70. 71. 110. 122. 20000 64. 64. 64. 64. 109. 122. OCTAVE FREQ 63 73. 76. 75. 141. 146. 125 78. 77. 77. 146. 151. 250 82. 83. 83. 148. 155. 500 66. 87. 87. 146. 154. 1000 87. 87. 88. 145. 153. 2000 85. 89. 88. 138. 149. 4000 85. 89. 88. 138. 149. 4000 85. 87. 87. 87. 133. 143. 8000 81. 85. 85. 127. 135. | | | | | | 137. |
| 10000 76. 78. 78. 118. 123. 12500 73. 75. 74. 115. 123. 16000 70. 70. 70. 71. 110. 122. 20000 64. 64. 64. 64. 109. 122. OCTAVE FREQ 63 73. 76. 75. 141. 146. 151. 125 78. 77. 77. 146. 151. 250 82. 83. 83. 148. 155. 500 66. 87. 87. 146. 155. 153. 2000 87. 87. 87. 146. 154. 154. 1000 87. 87. 88. 145. 153. 2000 85. 89. 88. 138. 149. 4000 85. 89. 88. 138. 149. 4000 85. 87. 87. 87. 133. 143. 8000 81. 85. 85. 127. 135. | | | | | | |
| 12500 72. 75. 74. 115. 123. 16000 70. 70. 71. 110. 122. 20000 64. 64. 64. 64. 109. 122. OCTAVE FREQ 63 73. 76. 75. 141. 146. 125 78. 77. 77. 146. 151. 250 82. 63. 83. 148. 155. 500 66. 67. 87. 146. 154. 1000 67. 67. 87. 146. 154. 2000 65. 89. 88. 145. 153. 2000 65. 89. 88. 138. 149. 4000 65. 87. 87. 133. 143. 8000 81. 65. 85. 127. 135. | | | | | | |
| 16000 70. 70. 71. 110. 122. 20000 64. 64. 64. 64. 109. 122. OCTAVE FREQ 63 73. 76. 75. 141. 146. 125 78. 77. 77. 146. 151. 250 82. 83. 83. 148. 155. 500 66. 87. 87. 146. 154. 1000 87. 87. 88. 145. 153. 2000 85. 89. 88. 138. 149. 4000 85. 87. 87. 133. 143. 8000 81. 85. 85. 127. 135. | | | | | | |
| 20000 64. 64. 64. 109. 122. OCTAVE FREQ 63 73. 76. 75. 141. 146. 125 78. 77. 77. 146. 151. 250 82. 83. 83. 148. 155. 500 66. 87. 87. 146. 154. 1000 67. 67. 88. 145. 153. 2000 65. 89. 88. 138. 149. 4000 65. 87. 87. 87. 133. 143. 8000 81. 65. 85. 127. 135. | | | | | 115. | 123. |
| OCTAVE FREQ 63 73. 76. 75. 141. 146. 125 78. 77. 77. 146. 151. 250 82. 83. 83. 148. 155. 500 66. 87. 87. 146. 154. 1000 67. 87. 88. 145. 153. 2000 65. 89. 88. 138. 149. 4000 65. 87. 87. 133. 143. 8000 81. 85. 85. 127. 135. | | | | | | |
| 63 73. 76. 75. 141. 146. 125 78. 77. 77. 146. 151. 250 82. 83. 83. 148. 155. 500 66. 87. 87. 146. 154. 1000 67. 67. 88. 145. 153. 2000 65. 89. 88. 138. 149. 4000 65. 87. 87. 133. 143. 8000 81. 65. 85. 127. 135. | 20000 | 64. | 64. | 64. | 109. | 122. |
| 63 73. 76. 75. 141. 146. 125 78. 77. 77. 146. 151. 250 82. 83. 83. 148. 155. 500 66. 87. 87. 146. 154. 1000 67. 67. 88. 145. 153. 2000 65. 89. 88. 138. 149. 4000 65. 87. 87. 133. 143. 8000 81. 65. 85. 127. 135. | OCTAVE ERFO | | | | | |
| 125 78. 77. 77. 146. 151. 250 82. 83. 83. 148. 155. 500 66. 67. 67. 146. 154. 1000 67. 67. 88. 145. 153. 2000 65. 69. 88. 138. 149. 4000 65. 87. 87. 133. 143. 8000 81. 65. 85. 127. 135. | | 73. | 76. | 75. | 141. | 146 - |
| 250 82. 83. 148. 155. 500 66. 87. 87. 146. 154. 1000 67. 67. 88. 145. 153. 2000 65. 89. 88. 138. 149. 4000 65. 87. 87. 133. 143. 8000 81. 65. 85. 127. 135. | | | | | | |
| 500 £6. £7. £7. £4. 1000 £7. £7. 88. 145. 153. 2000 £5. £9. 88. 138. 149. 4000 £5. £7. £7. 133. 143. 8000 81. £5. 85. 127. 135. | | | | | | |
| 1000 £7. £7. 88. 145. 153. 2000 £5. £9. 88. 138. 149. 4000 £5. £7. £7. 133. 143. 8000 81. £5. 85. 127. 135. | | | | | | |
| 2000 £5. £9. 88. 138. 149. 4000 £5. £7. £7. 133. 143. 8000 £1. £5. £5. £5. 127. 135. | | | | | | |
| 4040 E5. E7. E7. 133. 143. 8000 81. E5. 85. 127. 135. | | | | | | |
| 8000 81. 85. 85. 127. 135. | | | | | | |
| | | | | | | 135 |
| | 16000 | 75. | 76. | 76. | 117. | 127. |

CONFIGURATION 11

VAR GEOM EXT LENGTH VAR GECM 0/0 CPEN DZ = 0

POWER SETTING 55

READING NJ. 349

| | | MICROPHEN | E POSITION | | |
|--------------|-----|-------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 77. | 75. | 70. | 136. | 141. |
| 63 | 76. | 77. | 78. | 136. | 142. |
| 80 | 74. | 73. | 7C. | 139. | 144. |
| 100 | 75. | 75. | 73. | 142. | 146. |
| 125 | 76. | 74. | 74. | 140. | 147. |
| 160 | 75. | 76. | 75. | 144. | 148. |
| 200 | 77. | 77. | 77. | 142. | 151. |
| 250 | 77. | 77. | 78. | 144. | 150. |
| 315 | 79. | £0. | 81. | 144. | 151. |
| 400 | 81. | 82. | 80. | 145. | 150. |
| 500 | 83. | 84. | 83. | 143. | 149. |
| 630 | 84. | €3. | 85. | 135. | 150. |
| 800 | 84. | 84. | 84. | 138. | 150. |
| 1000 | 84. | ٤5. | 85. | 144. | 147. |
| 1250 | 81. | El. | 83. | 136. | 146. |
| 1600 | 83. | 83. | 84. | 134. | 146. |
| 2000 | 83. | 83. | 84. | 134. | 145. |
| 2500 | 82. | 86. | 64. | 133. | 143. |
| 3150 | 82. | 83. | 82. | 131. | 141. |
| 4000 | 81. | E3 . | 83. | 128. | 138. |
| 5000 | 81. | 83. | 84. | 125. | 137. |
| 6300 | 81. | E3 . | 84. | 125. | 134. |
| 8000 | 81. | E3 . | 83. | 121. | 129. |
| 10000 | 80. | 82. | 81. | 118. | 125. |
| 12500 | 76. | 78. | 79. | 115. | 124. |
| 15000 | 72. | 74. | 76. | 111. | 122. |
| 20000 | 60. | 67. | 69. | 107. | 121. |
| OCTAVE FREQ | | | | | |
| 63 | 81. | 80. | 79. | 142. | 147. |
| 125 | 80. | 80. | 79. | 147. | 152. |
| 250 | 83. | 83. | 84. | 148. | 155. |
| 500 | 88. | 68. | 88. | 147. | 154. |
| 1000 | 88. | ee. | 89. | 145. | 153. |
| 2000 | 67. | 69. | 89. | 138. | 150. |
| 4000 | 86. | 88. | 88. | 133. | 144. |
| 8000 | 85. | ٤7. | 88. | 128. | 136. |
| 16000 | 78. | .09 | 81. | 117. | 127. |

CONFIGURATION 11
VAR GEOM EXT LENGTH VAR GECM 0/0 OPEN DZ = 0
POWER SETTING 75
READING NO. 353

| | | MICROPHO | NE POSITION | | |
|--------------|-------|------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 71. | 71. | 77. | 139. | 142. |
| 63 | 78. | 77. | 86. | 137. | 142. |
| 80 | 68. | 65. | 73. | 140. | 145. |
| 100 | 71. | 72. | 74. | 143. | 148. |
| 125 | 78. | 77. | 77. | 141. | 148. |
| 160 | 75. | 75. | 78. | 144. | 149. |
| 200 | 77. | 77. | 81. | 144. | 152. |
| 250 | 78. | 78. | 78. | 145. | 150. |
| 315 | 80. | 80. | 80. | 144. | 151. |
| 400 | 79. | 60. | 80. | 145. | 151. |
| 500 | 83. | 81. | 81. | 145. | 150. |
| 630 | 84. | 24. | 83. | 135. | 150. |
| 800 | 83. | 83. | 84. | 137. | 150. |
| 1000 | 84. | E5. | 84. | 144. | 149. |
| 1250 | 82. | E2. | 83. | 138. | 147. |
| 1600 | 83. | 84. | 85. | 135. | 147. |
| 2000 | 83. | E5. | 85. | 135. | 147. |
| 2500 | 87. | 86. | 84. | 134. | 144. |
| 3150 | 84. | £7. | 86. | 132. | 142. |
| 4000 | 83. | 89. | 88. | 130. | 141. |
| 5000 | 82. | e7. | 89. | 126. | 138. |
| 6300 | 82. | 86. | 89. | 128. | 137. |
| 8000 | 8 ž • | 86. | 87. | 122. | 131. |
| 10000 | 80. | 84. | 88. | 118. | 126. |
| 12500 | 79. | 84. | 89. | 115. | 125. |
| 1 6000 | 76. | 81. | £5 . | 111. | 123. |
| 20000 | 72. | 73. | 80. | 109. | 122. |
| OCTAVE FREQ | | | | | |
| 63 | 79. | 78. | 87. | 144. | 148. |
| 125 | 80. | 80. | 81. | 148. | 153. |
| 250 | 83. | E3. | £5. | 149. | 156. |
| 500 | 87. | 87. | 86. | 148. | 155. |
| 1000 | 88. | 88. | 8 -3 - | 146. | 154. |
| 2000 | 90. | 90. | 84. | 139. | 151. |
| 4000 | 88. | 93. | 93. | 135. | 145. |
| 8000 | 86. | 50. | 93. | 129. | 138. |
| 16000 | 81. | 86. | 91. | 117. | 128. |

CONFIGURATION 11 VAR GEOM EXT LENGTH VAR GEOM 0/0 OPEN DZ = 0 POWER SETTING 100 READING NO. 355

| | MICROPHENE PESITION | | |
|----------------|---------------------|------|------|
| 1/3 OCT FREQ 1 | 2 3 | 4 | 5 |
| 50 70. | 78. | 140. | 144. |
| 63 78. | 86. | 139. | 144. |
| 80 70. | 73. | 142. | 145. |
| 100 103. | 77. | 162. | 148. |
| 125 78. | 78. | 144. | 149. |
| 160 75. | 79. | 144. | 150. |
| 200 77. | 81. | 146. | 153. |
| 250 77. | 78. | 145. | 151. |
| 315 80. | e1. | 144. | 152. |
| 400 79. | 30. | 143. | 151. |
| 500 81. | e2. | 147. | 150. |
| 630 83. | 84. | 136. | 151. |
| 800 84. | 86. | 137. | 150. |
| 1000 67. | 86. | 146. | 150. |
| 1250 84. | 86. | 140. | 148. |
| 1600 84. | 66. | 136. | 148. |
| 2000 86. | 87. | 136. | 148. |
| 2500 36. | 87. | 135. | 146. |
| 3150 87. | 89. | 132. | 144. |
| 4000 87. | 92. | 131. | 142. |
| 5000 86. | 94. | 129. | 141. |
| 6300 86. | 93. | 129. | 141. |
| 8000 86. | 91. | 123. | 134. |
| 10000 84. | 92. | 119. | 129. |
| 12500 82. | 92. | 120. | 127. |
| 16000 80. | 89. | 118. | 123. |
| 20000 77. | 85. | 118. | 122. |
| OCTAVE FREQ | | | |
| 63 79. | 87. | 145. | 149. |
| 125 103. | 83. | 162. | 154. |
| 250 83. | 85. | 150. | 157. |
| 500 86. | 87. | 149. | 155. |
| 1000 90. | 91. | 147. | 154. |
| 2000 90. | 91. | 140. | 152. |
| 4000 91. | 97. | 136. | 147. |
| 8000 90. | 57. | 130. | 142. |
| 16000 85. | 94. | 124. | 129. |

CONFIGURATION 11 VAR GEOM EXT LENGTH VAR GEOM 0/0 CFEN DZ = 0 POWER SETTING 40R REACING NO. 365

| | | MICROPHO | CHE POSITION | | |
|--------------|-----|------------|--------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 70. | 71. | 71. | 133. | 138. |
| 63 | 78. | 79. | 80. | 133. | 140. |
| 80 | 69. | 76. | 71. | 134. | 142. |
| 100 | 70. | 71. | 73. | 138. | 144. |
| 125 | 75. | 74. | 77. | 138. | 144. |
| 160 | 75. | 74. | 75. | 140. | 145. |
| 200 | 76. | 76. | 76. | 142. | 147. |
| 250 | 77. | 76. | 76. | 139. | 147. |
| 315 | 79. | 79. | 81. | 138. | 148. |
| 400 | 79. | 80. | 80. | 141. | 147. |
| 500 | 80. | 82. | 82. | 141. | 148. |
| 630 | 84. | 84. | 84. | 136. | 149. |
| 800 | 83. | 84. | 84. | 141. | 150. |
| 1000 | 83. | £5. | 83. | 140. | 147. |
| 1250 | 82. | 83. | 84. | 137. | 145. |
| 1600 | 63. | 84. | 84. | 136. | 147. |
| 2000 | 82. | 85. | 84. | 136. | 146. |
| 2500 | 83. | 86. | 85. | 136. | 144. |
| 3150 | 84. | 86. | ٤5. | 135. | 142. |
| 4000 | 83. | ٤5. | 86. | 134. | 139. |
| 5000 | 80. | 84. | 86. | 130. | 139. |
| 6300 | 80. | 83. | 86. | 128. | 134. |
| 8000 | 79. | 83. | 84. | 124. | 130. |
| 10000 | 79. | 81. | 85. | 123. | 124. |
| 12500 | 78. | 80. | 86. | 118. | 124. |
| 16000 | 75. | 78. | 83. | 115. | 122. |
| 20000 | 71. | 71. | 77. | 110. | 121. |
| OCTAVE FREQ | | | | | |
| 63 | 79. | ٤٥. | 81. | 138. | 145. |
| 125 | 79. | 78. | 80. | 144. | 149. |
| 250 | 82. | 82. | 83. | 145. | 152. |
| 500 | 86. | £7. | 87. | 145. | 153. |
| 1000 | 87. | 85. | 88. | 144. | 153. |
| 2000 | 87. | 50. | 89. | 141. | 151. |
| 4000 | 87. | 90. | 90. | 138. | 145. |
| 8000 | 84. | £7. | 90. | 130. | 136. |
| 16000 | 80. | 82. | 88. | 120. | 127. |
| 10000 | 30. | 42. | 00• | 150. | |

CONFIGURATION 11 VAR GEOM EXT LENGTH VAR GEOM 0/0 OPEN DZ = 0 POWER SETTING 55R READING NO. 259

| | | MICROPHONE | PCSITICN | | |
|--------------|-----|------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 70. | 70. | 72. | 135. | 139. |
| 63 | 76. | 79. | 81. | 135. | 141. |
| 80 | 70. | 71. | 71. | 135. | 142. |
| 100 | 65. | 72. | 73. | 139. | 144. |
| 125 | 76. | 76. | 77. | 139. | 146. |
| 160 | 74. | 74. | 75. | 140. | 146. |
| 200 | 76. | 76. | 76. | 144. | 149. |
| 250 | 77. | 75. | 77. | 140. | 149. |
| 31 5 | 79. | £0. | 82. | 139. | 149. |
| 400 | 79. | 81. | .09 | 141. | 148. |
| 500 | 81. | 82. | 82. | 142. | 148. |
| 630 | 84. | 84. | 84. | 138. | 150. |
| 800 | 63. | 84. | 84. | 140. | 151. |
| 1000 | 83. | 85. | 84. | 140. | 148. |
| 1250 | 83. | 83. | 83. | 138. | 146. |
| 1600 | 83. | 84. | 84. | 137. | 146. |
| 2000 | 82. | £6. | 85. | 137. | 145. |
| 2500 | 83. | 90. | 85. | 137. | 144. |
| 3150 | 84. | ٤7. | 86. | 136. | 143. |
| 4000 | 84. | 87. | 66. | 136. | 140. |
| 5000 | 81. | £6. | 87. | 131. | 139. |
| 6300 | 80. | 84. | 87. | 130. | 138. |
| 8000 | 80. | ٤4. | 84. | 125. | 132. |
| 10000 | 79. | £2. | 85. | 124. | 126. |
| 12500 | 78. | 81. | 85. | 119. | 125. |
| 16000 | 76. | 78. | 83. | 116. | 123. |
| 20000 | 71. | 72. | 77. | 110. | 122. |
| | | | | | |
| OCTAVE FREQ | | | | | |
| 63 | 78. | £0. | 82. | 140. | 146. |
| 125 | 79. | 75. | 80. | 144. | 150. |
| 250 | 82. | €2. | E4 • | 146. | 154. |
| 500 | 87. | £7. | 87. | 145. | 154. |
| 1000 | .88 | 69. | 88. | 144. | 154. |
| 2000 | 87. | 92. | 89. | 142. | 150. |
| 4000 | .83 | 91. | 91. | 140. | 146. |
| 8000 | 84. | .89 | 90. | 132. | 139. |
| 16000 | 81. | 83. | .88 | 121. | 128. |

Wilderson and head of the second and the

CONFIGURATION 11
VAR GEOM EXT LENGTH VAR GEOM 0/0 OPEN DZ = 0
POWER SETTING 75R
READING NJ. 357

| | | MICROPHE | NE POSITION | | |
|--------------|-------------|--------------|-------------|--------------|------|
| 1/3 DCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 76. | 68. | 135. | 140. |
| 63 | 77. | 85. | 77. | 135. | 141. |
| 80 | 69. | 72. | 63. | 137. | 142. |
| 100 | 70. | 73. | 64. | 140. | 146. |
| 125 | 77. | 76. | 68. | 141. | 146. |
| 160 | 74. | 77. | 68. | 140. | 147. |
| 200 | 76. | 75. | 70. | 145. | 149. |
| 250 | 78. | 77. | 69. | 140. | 149. |
| 315 | 79. | .09 | 71. | 140. | 150. |
| 400 | 79. | 81. | 70. | 142. | 150. |
| 500 | 80. | 81. | 72. | 143. | 148. |
| 630 | 83. | ٤5. | 74. | 139. | 150. |
| 800 | 83. | 84. | 74. | 139. | 151. |
| 1000 | 84. | 85. | 75. | 140. | 149. |
| 1250 | 83. | 83. | 73. | 139. | 147. |
| 1600 | e 3. | E5 . | 75. | 137. | 147. |
| 2000 | 83. | 86. | 75. | 137. | 147. |
| 2500 | 84. | E7. | 76. | 137. | 144. |
| 3150 | 86. | 85. | 76. | 136. | 143. |
| 4000 | 86. | 50. | 78. | 136. | 141. |
| 5000 | 83. | 89. | 78. | 132. | 139. |
| 6300 | 82. | £ 6 • | 78. | 129. | 138. |
| 6000 | 82. | £6. | 77. | 125. | 132. |
| 10000 | 80. | 85. | 78. | 125. | 127. |
| 12500 | 80. | £5 • | 78. | 119. | 125. |
| 16000 | 75. | 84. | 76. | 115. | 122. |
| 20000 | 75. | 77. | 72. | 110. | 122. |
| 007445 5050 | | | | | |
| OCTAVE FREQ | | 6.4 | 70 | 141. | 146. |
| 63 | 78. | £6. | 78. | | 151. |
| 125 | 79. | 80. | 12. | 145. 147. | 154. |
| 250 | 83. | £4. | 15. 77. | | 154. |
| 500 | 86. | .93 | 79. | 146. 144. | 154. |
| 1000 | 88. | £5. | 80. | 142. | 151. |
| 2000 | 88. | 91. | 82. | 140. | 146. |
| 4000 | 90. | 54. CA | | | 139. |
| 8000 | 86. | 50. | 82. | 132. | 128. |
| 16000 | 83. | .93 | 81. | 121. | 120. |

CONFIGURATION 12
VAR GEOM EXT LENGTH VAR GECM 0/0 CPEN DZ = 20
POWER SETTING 25
READING NO. 339

| | | MICROPHO | NE POSITION | | |
|--------------|-----|-------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | ez. | 63. | 64. | 135. | 139. |
| 63 | 69. | 68. | 69. | 135. | 139. |
| 80 | 67. | 67. | 68. | 138. | 141. |
| 100 | 69. | 7C. | 71. | 140. | 142. |
| 125 | 68. | 68. | 70. | 139. | 145. |
| 160 | 70. | 71. | 71. | 143. | 146. |
| 200 | 72. | 73. | 71. | 142. | 146. |
| 250 | 71. | 71. | 73. | 143. | 147. |
| 315 | 74. | 74. | 76. | 143. | 148. |
| 400 | 78. | 78. | 76. | 144. | 145. |
| 500 | 77. | 75. | 80. | 140. | 145. |
| 63U | 81. | 81. | 81. | 131. | 146. |
| 800 | 81. | 81. | 81. | 134. | 146. |
| 1000 | 78. | 75. | 80. | 138. | 143. |
| 1250 | 77. | 77. | 77. | 132. | 143. |
| 1600 | 78. | 75. | 79. | 132. | 143. |
| 2000 | 77. | 79. | 79. | 132. | 142. |
| 2500 | 77. | 75. | 78. | 130. | 140. |
| 3150 | 77. | eù. | 79. | 129. | 137. |
| 4000 | 77. | . 03 | 81. | 125. | 136. |
| 5000 | 75. | 80. | 81. | 123. | 134. |
| 6300 | 75. | 75. | 80. | 123. | 129. |
| 8000 | 74. | 78. | 78. | 119. | 125. |
| 10000 | 74. | 75. | 77. | 116. | 120. |
| 12500 | 70. | 72. | 74. | 114. | 117. |
| 16000 | 67. | 68. | 71. | 111. | 115. |
| 20000 | 62. | 61. | 65. | 110. | 113. |
| UCTAVE FREQ | | | | | |
| 63 | 72. | 71. | 72. | 141. | 145. |
| 125 | 74. | 75. | 75. | 146. | 149. |
| 250 | 78. | 78. | 79. | 147. | 152. |
| 500 | 84. | 84. | 84. | 146. | 150. |
| 1000 | 84. | 84. | 84. | 140. | 149. |
| 2000 | 82. | 84. | 83. | 136. | 147. |
| 4000 | 81. | 85. | 65. | 131. | 141. |
| 3000 | 79. | 82. | 83. | 125. | 131. |
| 16000 | 72. | 74. | 76. | 117. | 120. |

CUNFIGURATION 12
VAR GEDM EXT LENGTH VAR GECM 0/0 CPEN DZ = 20
POWER SETTING 40
READING NO. 341

| | | MICROPHONE | PCSITICN | | |
|--------------|-----|------------|--------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 63. | | 70. | 136. | 140. |
| 63 | 70. | | 78. | 135. | 139. |
| 80 | 66. | | 69. | 140. | 143. |
| 100 | 69. | | 72. | 142. | 145. |
| 125 | 76. | | 75. | 140. | 146. |
| 160 | 74. | | 74. | 144. | 147. |
| 200 | 76. | | 76. | 142. | 148. |
| 250 | 76. | | 78. | 144. | 148. |
| 315 | 75. | | 82. | 145. | 150. |
| 400 | 79. | | 81. | 145. | 147. |
| 500 | 79. | | 82. | 143. | 147. |
| 630 | 83. | | 84. | 135. | 147. |
| 800 | 82. | | 83 . | 137. | 147. |
| 1000 | 81. | | 82. | 141. | 145. |
| 1250 | 80. | | 80. | 135. | 145. |
| 1600 | 80. | | 81. | 135. | 145. |
| 2000 | 80. | | 82. | 135. | 144. |
| 2500 | 80. | | 81. | 133. | 142. |
| 3150 | 80. | | 81. | 131. | 140. |
| 4000 | 79. | | 82. | 129. | 138. |
| 5000 | 78. | | 83. | 126. | 137. |
| 6300 | 77. | | 83. | 125. | 132. |
| 3000 | 76. | | 80. | 122. | 127. |
| 10000 | 75. | | 79. | 113. | 122. |
| 12500 | 72. | | 76. | 115. | 118. |
| 16000 | 68. | | 73. | 111. | 116. |
| 20000 | 65. | | 68. | 110. | 113. |
| OCTAVE FREQ | | | | | |
| 63 | 72. | | 79. | 142. | 146. |
| 125 | 79. | | 79. | 147. | 151. |
| 250 | 82. | | 84. | 149. | 154. |
| 500 | 86. | | 87. | 147. | 152. |
| 1000 | 86. | | e7. | 143. | 151. |
| 2000 | 65. | | 86. | 139. | 149. |
| 4000 | 84. | | 87. | 134. | 143. |
| 8000 | 81. | | £6. | 127. | 134. |
| 16000 | 74. | | 78. | 117. | 121. |
| | - | | - | | |

CONFIGURATION 12
VAR GECM EXT LENGTH VAR GECM 0/0 OPEN DZ = 20
POWER SETTING 55
READING NO. 347

| | | MICROPHO | NE POSITION | i | |
|--------------|-----|-------------|-------------|---------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 75. | és. | 70. | 138. | 143. |
| 63 | 81. | 77. | 79. | 136. | 143. |
| 80 | 78. | 69. | 70. | 139. | 144. |
| 100 | 80. | 71. | 73. | 143. | 147. |
| 125 | 85. | 72. | 75. | 141. | 147. |
| 160 | 84. | 74. | 75. | 144. | 148. |
| 200 | £5. | 76. | 77. | 143. | 151. |
| 250 | ٤7. | 77. | 78. | 143. | 149. |
| 315 | 90. | 80. | 81. | 144. | 151. |
| 400 | 89. | 81. | a u. | 145. | 150. |
| 500 | 92. | £3 . | e3 . | 144. | 148. |
| 630 | 93. | 83. | 83. | 134. | 149. |
| 8U O | 92. | €3. | 83. | 136. | 149. |
| 1000 | 92. | £3 . | 83. | 142. | 147. |
| 1250 | 91. | e1 . | 82. | 135. | 146. |
| 1600 | 92. | 84. | 83. | 135. | 147. |
| 2000 | 91. | 83. | 83. | 134. | 146. |
| 2500 | 92. | e5 • | 82. | 133. | 144. |
| 3150 | 91. | E3 . | 82. | 131. | 141. |
| 4000 | 90. | €3. | 83. | 129. | 140. |
| 5000 | 89. | 83. | 84. | 125. | 138. |
| 6300 | 89. | 84. | 84. | 126. | 135. |
| 8000 | 90. | 85. | 83. | 121. | 129. |
| 10000 | .89 | €2• | 81. | 118. | 125. |
| 12500 | 86. | 80. | 79. | 115. | 124. |
| 16000 | 82. | 76. | 77• | 111. | 122. |
| 20000 | 77. | 68. | 70. | 109. | 122. |
| OCTAVE FREQ | | | | | |
| 63 | 83. | 78. | 80. | 143. | 148. |
| 125 | 88. | 77. | 79. | 148. | 152. |
| 250 | 93. | 83. | 84. | 148. | 155. |
| 500 | 96. | £7 . | 87. | 148. | 154. |
| 1000 | 96. | ٤7. | 87. | 144. | 152. |
| 2000 | 96. | 85. | 87. | 139. | 151. |
| 4000 | 95. | 88. | 88. | 134. | 145. |
| 8000 | 94. | 85. | 88. | 128. | 136. |
| 16000 | 88. | 82. | 81. | 117. | 128. |
| 10000 | 00. | | 011 | * * 1 * | -204 |

CONFIGURATION 12
VAR GEOM EXT LENGTH VAR GEOM 0/0 CPEN CZ = 20
PUWER SETTING 75
READING NO. 351

| | | MICROPHO | NE POSITIO | N | |
|--------------|--------------|-------------|-------------|------|------|
| 1/3 UCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 71. | 71. | 71. | 139. | 145. |
| 63 | 80. | eu. | 79. | 138. | 143. |
| 81) | 68. | ES. | 69. | 142. | 146. |
| 100 | 71. | 71. | 73. | 144. | 148. |
| 125 | 78. | 76. | 76. | 142. | 148. |
| 160 | 75. | 76. | 74. | 145. | 149. |
| 200 | 77. | 77. | 76. | 145. | 151. |
| 250 | 77. | 77. | 77. | 144. | 150. |
| 315 | 80. | .09 | 79. | 144. | 151. |
| 400 | 78. | .03 | 80. | 145. | 150. |
| 500 | 8 <i>2</i> • | 61. | 80. | 146. | 149. |
| £30 | 82. | 83. | 82. | 135. | 150. |
| 800 | 82. | €2. | 83. | 136. | 150. |
| 1000 | 83. | £5 • | 83. | 141. | 148. |
| 1250 | 81. | €2. | 83. | 136. | 148. |
| 1600 | 82. | 84. | 84. | 135. | 147. |
| 2000 | 83. | 65 • | 84. | 135. | 147. |
| 2500 | 83. | ٤٤. | 85. | 134. | 145. |
| 3150 | 85. | ٤5. | 86. | 132. | 143. |
| 4000 | 84. | 90. | 88. | 130. | 141. |
| 5000 | 83. | 89. | 89. | 126. | 139. |
| 6300 | 82. | ٤7. | 88. | 128. | 137. |
| 8000 | 63. | . 63 | 86. | 122. | 132. |
| 10000 | 81. | E4 • | 86. | 113. | 127. |
| 12500 | 79. | E4. | 87. | 116. | 125. |
| 1 5000 | 77. | 81. | e3 • | 111. | 122. |
| 20000 | 72. | 74. | 77. | 109. | 122. |
| | | | | | |
| OCT AVE FREQ | | | | | |
| 63 | 81. | 81. | 80. | 145. | 150. |
| 125 | 80. | £0. | 79. | 149. | 153. |
| 250 | 83. | £3. | 82. | 149. | 155. |
| 500 | 86. | 86. | 86. | 149. | 154. |
| 1000 | 67. | .83 | 88. | 143. | 154. |
| 2000 | 67. | 90. | 89. | 139. | 151. |
| 4000 | 89• | 54. | 93. | 135. | 146. |
| 8000 | 87. | 91. | 92. | 129. | 139. |
| 16000 | 82. | 86. | 89. | 118. | 128. |

CONFIGURATION 12
VAR GEOM EXT LENGTH VAR GEOM 0/0 CPEN DZ = 20
POWER SETTING 40R
READING NJ. 363

| | | MICROPHEN | E PCSITICA | | |
|--------------|-----|-------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 70. | 71. | 12. | 134. | 138. |
| 63 | 78. | EO. | 81. | 134. | 141. |
| 80 | 69. | 7C. | 70. | 135. | 142. |
| 100 | 69. | 71. | 72. | 139. | 144. |
| 125 | 75. | 75. | 78. | 139. | 145. |
| 160 | 74. | 74. | 75. | 139. | 146. |
| 200 | 76. | 76. | 76. | 143. | 147. |
| 250 | 76. | 75. | 77. | 139. | 147. |
| 315 | 79. | .08 | 81. | 139. | 149. |
| 400 | 79. | 81. | 80. | 142. | 147. |
| 500 | 79. | €3. | 82. | 142. | 148. |
| 630 | 83. | 83. | 84. | 136. | 149. |
| 800 | 83. | 84. | 84. | 139. | 149. |
| 1000 | 82. | 84. | e3 . | 138. | 147. |
| 1250 | 81. | 83. | 82. | 137. | 146. |
| 1600 | 82. | E4 . | 84. | 136. | 146. |
| 2000 | 82. | 86. | 84. | 137. | 146. |
| 2500 | 86. | 50. | 84. | 136. | 143. |
| 3150 | 83. | 86. | 84. | 135. | 142. |
| 4000 | 83. | 86. | ٤5. | 135. | 139. |
| 5000 | 80. | 84. | 86. | 131. | 138. |
| 6300 | 80. | 83. | 86. | 129. | 135. |
| 8000 | 79. | 82. | 84. | 124. | 130. |
| 10000 | 79. | ٤1. | 86. | 124. | 125. |
| 12500 | 77. | 81. | 86. | 119. | 124. |
| 16000 | 75. | 78. | e3 . | 116. | 123. |
| 20000 | 70. | 71. | 77. | 111. | 122. |
| | | | | | |
| OCTAVE FREQ | | | | | |
| 63 | 79. | 81. | 82. | 139. | 145. |
| 125 | 78. | 78. | 8J. | 144. | 150. |
| 250 | 82. | E2 . | 83. | 146. | 153. |
| 500 | 86. | 87. | 87. | 146. | 153. |
| 1000 | 87. | .99 | 88. | 143, | 152. |
| 2000 | 89. | 92. | 89. | 141. | 150. |
| 4000 | 87. | 90. | 90• | 139. | 145. |
| 8000 | 84. | ٤7. | 90. | 131. | 137. |
| 16000 | 80. | 83. | 88. | 121. | 128. |

CONFIGURATION 12
VAR GEOM EXT LENGTH VAR GEOM U/O OPEN DZ = 20
POWER SETTING 55R
READING NO. 361

| | | MICRUPHO | NE POSITION | | |
|--------------|--------------|-------------|-------------|-------|------|
| 1/3 OCT FREQ | ì | 2 | 3 | 4 | 5 |
| 50 | 70. | 70. | 72. | 136. | 140. |
| 63 | 78. | 78. | 80. | 135. | 142. |
| 30 | 69. | 71. | 70. | 136. | 142. |
| 100 | 71. | 72. | 73. | 139. | 143. |
| 125 | 76. | 75. | 78. | 140. | 145. |
| 160 | 74. | 75. | 74. | 140. | 147. |
| 200 | 76. | 77. | 75. | 145. | 149. |
| 250 | 78. | 77. | 77. | 140. | 148. |
| 315 | 79. | ec. | 81. | 140 . | 149. |
| 4(11) | 79. | 80. | 80. | 142. | 149. |
| 500 | 80. | 82. | 82. | 143. | 148. |
| 630 | 84. | 84. | 84. | 138. | 149. |
| 800) | E3 . | e3. | 84. | 139. | 150. |
| 1000 | 83. | E4. | 83. | 139. | 148. |
| 1250 | 83. | 63. | 83. | 138. | 147. |
| 1500 | 82. | E4 . | 84. | 136. | 148. |
| 2000 | 82. | £ 6. | 84. | 137. | 147. |
| 2500 | 82. | 85. | 84. | 137. | 145. |
| 3150 | 85. | £7. | 85. | 136. | 143. |
| 4000 | e5. | E7. | 86. | 136. | 141. |
| 5000 | 81. | €5. | 86. | 131. | 139. |
| 6300 | 80. | 84. | 86. | 130. | 137. |
| 3000 | 80. | E4 • | 85 . | 125. | 133. |
| 10000 | 80. | 82. | 85. | 125. | 126. |
| 12500 | 78. | 81. | 86. | 120. | 125. |
| 16000 | 76. | 79. | 83. | 116. | 123. |
| 20000 | 72. | 72. | 76. | 111. | 122. |
| OCTAVE EDEN | | | | | |
| OCTAVE FRED | 79. | 79. | 81. | 140. | 146. |
| | 79. | 79. | 80. | 144. | 150. |
| 125 250 | 83. | £3. | 83. | 147. | 153. |
| 500 | £ 6 • | £7. | 87. | 146. | 153. |
| 1000 | 88. | 66. | 88. | 143. | 153. |
| 2000 | e7. | 52 . | 89. | 141. | 152. |
| 4000 | 89. | 51. | 90. | 140. | 146. |
| 3000 | 65 . | 68. | 90. | 132. | 139. |
| 16000 | 81. | e3. | 88. | 122. | 128. |
| 1 0000 | 0 4 4 | | 500 | * | |

CONFIGURATION 13

VAR GEOM EXT LENGTH VAR GEOM 0/0 OPEN DZ = 40

POWER SETTING 10

READING NO. 333

| | | MICROPHO | NE POSITIO | ١. | |
|--------------|------------|------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 66. | 68. | 66. | 135. | 138. |
| 63 | 69. | 68. | 68. | 133. | 139. |
| 8() | 66. | 67. | 67. | 139. | 141. |
| 100 | 70. | 69. | 70. | 139. | 142. |
| 125 | 71. | 70. | 71. | 137. | 144. |
| 160 | 70. | 72. | 73. | 142. | 144. |
| 200 | 72. | 73. | 72. | 142. | 144. |
| 250 | 76. | 76. | 76. | 140. | 144. |
| 315 | 76. | 78. | 78. | 139. | 144. |
| 400 | 78. | 75. | 76. | 141. | 141. |
| 500 | 75. | 75. | 79. | 134. | 142. |
| 630 | 79. | 75. | 81. | 129. | 141. |
| 800 | 79. | 75. | 79. | 131. | 142. |
| 1000 | 76. | 77. | 77. | 132. | 140. |
| 1250 | 74. | 75. | 75. | 130. | 141. |
| 1600 | 75. | 76. | 76. | 130. | 141. |
| 2000 | 74. | 75. | 15. | 129. | 140. |
| 2500 | 74. | 75. | 74. | 128. | 137. |
| 3150 | 75. | 76. | 76. | 126. | 133. |
| 4000 | 76. | 78. | 78. | 122. | 133. |
| 5000 | 73. | 77. | 77. | 122. | 130. |
| 6300 | 72. | 77. | 75. | 120. | 125. |
| 8000 | 70. | 75. | 72. | 117. | 121. |
| 10000 | 67. | 70. | 71. | 114. | 117. |
| 12500 | 64. | 67. | 69. | 112. | 115. |
| 16000 | £2. | 64. | 67. | 110. | 113. |
| 20000 | 57. | 57. | 60. | 110. | 112. |
| OCTAVE FREQ | | | | | |
| 63 | 72. | 72. | 72. | 141. | 144- |
| 125 | 75. | 75. | 76. | 145. | 148. |
| 250 | 80. | 81. | 81. | 145. | 149. |
| 500 | 82. | 84. | 84. | 142. | 146. |
| 1000 | 82. | £2. | 82. | 136. | 146. |
| 2000 | 79. | €0. | 80. | 134. | 144. |
| 4000 | 80. | 82. | 82. | 129. | 137. |
| 8000 | 75. | ٤0. | 78. | 122. | 127. |
| 16000 | 67. | 65. | 71. | 116. | 118. |

CONFIGURATION 13 VAR GEOM EXT LENGTH VAR GEOM C/O OPEN DZ = 40 POWER SETTING 25 READING NO. 335

| | | MICROPHO | NE POSITIO | \ | |
|--------------|-----|------------|------------|----------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| j0 | 62. | 63. | 65. | 137. | 140. |
| 63 | 68. | 68. | 69. | 135. | 140. |
| 80 | 65. | 67. | 68. | 138. | 141. |
| 100 | 68. | 69. | 71. | 141. | 143. |
| 125 | 68. | 68. | 71. | 139. | 145. |
| 160 | 71. | 71. | 71. | 145. | 145. |
| 200 | 72. | 71. | 70. | 143. | 146. |
| 250 | 72. | 72. | 73. | 142. | 146. |
| 315 | 74. | 73. | 76. | 142. | 147. |
| 400 | 75. | 77. | 75. | 143. | 144. |
| 500 | 76. | 80. | 80. | 139. | 144. |
| 630 | 80. | 79. | 81. | 130. | 144. |
| 800 | 80. | 60. | 80. | 132. | 144. |
| 1000 | 77. | 78. | 78. | 135. | 142. |
| 1250 | 76. | 76. | 77. | 132. | 143. |
| 1600 | 77. | 78. | 79. | 132. | 142. |
| 2000 | 76. | 77. | 78. | 131. | 141. |
| 2500 | 76. | 76. | 77. | 130. | 140. |
| 3150 | 77. | 79. | 78. | 129. | 137. |
| 4000 | 77. | 75. | 80. | 125. | 136. |
| 5000 | 75. | 79. | 80. | 123. | 133. |
| 6300 | 75. | 75. | 78. | 123. | 129. |
| 8000 | 74. | 75. | 77. | 119. | 125. |
| 10000 | 73. | 74. | 74. | 116. | 120. |
| 12500 | 70. | 71. | 73. | 114. | 117. |
| 16000 | 67. | £7. | 70. | 110. | 114. |
| | 62. | 61. | 63. | 109. | 112. |
| 20000 | 62. | ~~~ | | | |
| OCTAVE FREQ | | | | | |
| 53 | 70. | 71. | 72. | 142. | 145. |
| 125 | 74. | 74. | 76. | 147. | 149. |
| 250 | 78. | 77. | 78. | 147. | 151. |
| 500 | 82. | 84. | 84. | 145. | 149. |
| 1000 | 83. | 83. | 83. | 138. | 148. |
| 2000 | 81. | 82. | 83. | 136. | 146. |
| 4000 | 81. | 84. | 84. | 131. | 140. |
| 8000 | 79. | £3. | 81. | 125. | 131. |
| | 72. | 73. | 75. | 116. | 120. |
| 16000 | 14. | | | | |

CCNFIGURATION 13
VAR GEOM EXT LENGTH VAR GEOM 0/0 CPEN DZ = 40
POWER SETTING 40
READING NJ. 343

| | | MICROPHONE POSITION | | |
|--------------|------|---------------------|------|------|
| 1/3 JCT FREQ | 1 | 2 3 | 4 | 5 |
| 5.) | 67. | 70. | 139. | 142. |
| 63 | 69. | 77. | 138. | 141. |
| 80 | 67. | 69. | 140. | 144. |
| 100 | 70. | 72. | 144. | 144. |
| 125 | 75. | 74. | 141. | 147. |
| 160 | 73. | 75. | 145. | 147. |
| 200 | 75. | 76. | 143. | 147. |
| 250 | 76. | 78. | 144. | 147. |
| 315 | 78. | 80. | 143. | 148. |
| 400 | 78. | 80. | 144. | 146. |
| 500 | 78. | 81. | 141. | 145. |
| 630 | 82. | 83. | 133. | 146. |
| 800 | 80. | 81. | 133. | 146. |
| 1000 | • 08 | 81. | 137. | 144. |
| 1250 | 78. | 79. | 133. | 144. |
| 1600 | 79. | 81. | 133. | 144. |
| 2000 | 75. | 81. | 133. | 143. |
| 2500 | 79. | 81. | 132. | 142. |
| 3150 | 79. | 8 0. | 130. | 139. |
| 4000 | 79. | 82. | 127. | 137. |
| 500 U | 77. | 83. | 125. | 135. |
| 6300 | 77. | 81. | 125. | 131. |
| 8000 | 77. | 79. | 121. | 126. |
| 10000 | 75. | 77. | 117. | 122. |
| 12500 | 73. | 75. | 114. | 118. |
| 16000 | 69. | 72. | 111. | 115. |
| 20000 | 64. | 66. | 109. | 112. |
| OCTAVE FREG | | | | |
| 63 | 73. | 78. | 144. | 147. |
| 125 | 78. | 79. | 148. | 151. |
| 250 | 81. | 83. | 148. | 152. |
| 500 | £5. | 86. | 146. | 150. |
| 1000 | 84. | 85. | 140. | 150. |
| 2000 | 84. | 86. | 137. | 148. |
| 4000 | 83. | 87. | 133. | 142. |
| 8000 | 81. | 84. | 127. | 133. |
| 16000 | 75. | 77. | 117. | 120. |

CONFIGURATION 13
VAR GEOM EXT LENGTH VAR GEOM 0/0 CPEN CZ = 40
POWER SETTING 40R
READING NO. 367

| | | MICROPHO | NE POSITION | | |
|--------------|-----|-------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 70. | 70. | 72. | 136. | 140. |
| 63 | 77. | 77. | 81. | 137. | 139. |
| 80 | 69. | 70. | 70. | 137. | 141. |
| 100 | 70. | 72. | 72. | 141. | 144. |
| 125 | 76. | 75. | 77. | 141. | 146. |
| 160 | 74. | 74. | 75. | 141. | 146. |
| 200 | 76. | 76. | 76. | 145. | 147. |
| 250 | 77. | 76. | 77. | 141. | 147. |
| 315 | 75. | 75. | 81. | 140. | 147. |
| 400 | 80. | 21. | 80. | 141. | 146. |
| 500 | 79. | 81. | 82. | 142. | 146. |
| 630 | 83. | £3 . | 84. | 136. | 146. |
| 800 | 81. | £2 . | 82. | 136. | 146. |
| 1000 | 81. | 82. | 81. | 136. | 144. |
| 1250 | 80. | 01. | 82. | 136. | 145 |
| 1600 | 82. | 83. | 84. | 135. | 145. |
| 2000 | 82. | E4 • | 84. | 136. | 144. |
| 2500 | 84. | 86. | 85. | 136. | 143. |
| 3150 | 84. | £6. | 65 . | 135. | 140. |
| 4000 | 83. | 86. | 86. | 134. | 138. |
| 5000 | 80. | 84. | 87. | 130. | 137. |
| 6300 | 79. | 83. | 87. | 129. | 132. |
| 8000 | 80. | 83. | €5. | 123. | 128. |
| 10000 | 19. | e2 . | 86. | 123. | 122. |
| 12500 | 78. | 81. | 87. | 119. | 119. |
| 16000 | 76. | 78. | e5 . | 115. | 116. |
| 20000 | 72. | 72. | 79. | 110. | 112. |
| | | | | | |
| OCTAVE FREQ | | | | | |
| 63 | 78. | 78. | 82. | 141. | 145. |
| 125 | 79. | 79. | 80. | 146. | 150. |
| 250 | 82. | €2. | 83. | 147. | 152. |
| 500 | 86. | 87. | ٤7. | 145. | 151. |
| 1000 | 65. | .63 | 86. | 141. | 150. |
| 2000 | 88. | 89. | 89. | 140. | 149. |
| 4000 | 87. | 90. | 91. | 138. | 143. |
| 8000 | 84. | £7. | 91. | 131. | 134. |
| 16000 | 81. | £3 . | 90. | 121. | 121. |

CONFIGURATION 14
VAR GEDM EXT LENGTH VAR GEDM 0/0 OPEN DZ = 60
POWER SETTING 10
READING NO. 331

| | | MICROPHENE | PCSITICN | | |
|--------------|-----|------------|----------|------|------|
| 1/3 UCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 67. | 67. | 67. | 136. | 141. |
| 63 | 69. | £8. | 70. | 135. | 141. |
| 90 | 67. | 68. | 69. | 140. | 142. |
| 100 | 69. | 70. | 72. | 141. | 143. |
| 125 | 70. | 70. | 71. | 139. | 144. |
| 160 | 71. | 72. | 73. | 145. | 145. |
| 200 | 72. | 74. | 73. | 140. | 143. |
| 250 | 77. | 76. | 76. | 138. | 142. |
| 315 | 77. | 78. | 77. | 138. | 143. |
| 400 | 77. | 80. | 77. | 140. | 141. |
| 500 | 75. | 75. | 79. | 133. | 141. |
| 630 | 78. | 78. | 80. | 128. | 140. |
| 800 | 78. | 78. | 79. | 130. | 141. |
| 1000 | 76. | 77. | 76. | 131. | 140. |
| 1250 | 74. | 75. | 75. | 129. | 140. |
| 1600 | 75. | 75. | 75. | 130. | 141. |
| 2000 | 75. | 74. | 75. | 129. | 140. |
| 2504 | 74. | 75. | 74. | 128. | 137. |
| 3150 | 74. | 76. | 75. | 126. | 133. |
| 4000 | 76. | 78. | 79. | 122. | 133. |
| 5000 | 73. | 77. | 77. | 122. | 130. |
| 6300 | 72. | 76. | 75. | 121. | 125. |
| 8000 | 70. | 74. | 73. | 117. | 122. |
| 10000 | 67. | 70. | 71. | 114. | 116. |
| 12500 | 64. | 66. | 69. | 112. | 115. |
| 16000 | 62. | 64. | 67. | 110. | 113. |
| 20000 | 57. | 57. | 61. | 109. | 112. |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 72. | 74. | 142. | 146. |
| 125 | 75. | 76. | 77. | 147. | 149. |
| 250 | 81. | 81. | 80. | 144. | 147. |
| 500 | 82. | 84. | 84. | 141. | 145. |
| 1000 | 81. | 82. | 82. | 135. | 145. |
| 2000 | 79. | 79. | 79. | 134. | 144. |
| 4000 | 79. | 82. | 82. | 129. | 137. |
| 8000 | 75. | 79. | 78. | 123. | 127. |
| 16000 | 67. | 68. | 72. | 115. | 118. |

CONFIGURATION 14
VAR GEOM EXT LENGTH VAR GEOM 0/0 OPEN DZ = 60
POWER SETTING 25
READING NO. 337

| | | MICROPHONE | PCSITION | | |
|--------------|-----|------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 62. | 63. | 63. | 138. | 141. |
| 53 | 68. | €8. | 68. | 137. | 141. |
| 80 | 65. | 67. | 68. | 142. | 143. |
| 100 | 67. | 69. | 71. | 143. | 143. |
| 125 | 68. | 68. | 70. | 141. | 146. |
| 160 | 71. | 71. | 71. | 146. | 145. |
| 200 | 72. | 71. | 70. | 143. | 145. |
| 250 | 72. | 72. | 72. | 142. | 145. |
| 315 | 73. | 74. | 75. | 142. | 145. |
| 400 | 75. | 77. | 75. | 142. | 142. |
| 500 | 76. | 79. | 80. | 138. | 143. |
| 630 | 79. | 75. | 80. | 131. | 143. |
| 800 | 78. | 76. | 79. | 131. | 144. |
| 1000 | 76. | 77. | 77. | 134. | 142. |
| 1250 | 76. | 76. | 77. | 132. | 143. |
| 1600 | 77. | 78. | 79. | 132. | 143. |
| 2000 | 76. | 78. | 78. | 131. | 141. |
| 2500 | 76. | 78. | 78. | 130. | 140. |
| 3150 | 77. | 75. | 78. | 129. | 137. |
| 4000 | 77. | 75. | 81. | 126. | 136. |
| 5000 | 75. | 80. | 82. | 124. | 133. |
| 6300 | 75. | 79. | 81. | 123. | 129. |
| 8000 | 74. | 75. | 77. | 120. | 125. |
| 10000 | 71. | 75. | 75. | 116. | 120. |
| 12500 | 69. | 73. | 75. | 114. | 117. |
| 15000 | 66. | 69. | 71. | 111. | 114. |
| 20000 | 61. | 62. | 63. | 109. | 112. |
| | | | | | |
| OCTAVE FREQ | | | | | |
| 63 | 70. | 71. | 72. | 144. | 147. |
| 125 | 74. | 74. | 75. | 149. | 150. |
| 250 | 77. | 77. | 78. | 147. | 150. |
| 500 | 82. | 83. | 84. | 144. | 147. |
| 1000 | 82. | 82. | 83. | 137. | 148. |
| 2000 | 81. | E3. | 83. | 136. | 146. |
| 4000 | 81. | 84. | £5. | 132. | 140. |
| 8000 | 78. | 83. | 83. | 125. | 131. |
| 16000 | 71. | 75. | 77. | 117. | 120. |

CONFIGURATION 15
VAR GEOM EXT LENGTH VAR GEOM 0/0 OPEN DZ = 80
POWER SETTING 10
REACING NO. 329

| | | MICROPHONE | PCSITICN | | |
|--------------|-----|------------|----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 68. | 68. | 68. | 139. | 141. |
| 63 | 70. | 67. | 68. | 136. | 141. |
| 80 | 67. | 68. | 69. | 141. | 143. |
| 100 | 69. | 70. | 72. | 142. | 143. |
| 125 | 70. | 65. | 71. | 140. | 145. |
| 160 | 71. | 72. | 73. | 144. | 144. |
| 200 | 72. | 74. | 73. | 139. | 142. |
| 250 | 77. | 76. | 76. | 137. | 142. |
| 315 | 76. | 78. | 77. | 138. | 143. |
| 400 | 78. | 81. | 77. | 140. | 140. |
| 500 | 76. | 79. | 78. | 133. | 141. |
| 630 | 78. | 77. | 78. | 129. | 140. |
| 800 | 78. | 77. | 78. | 129. | 141. |
| 1000 | 75. | 76. | 76. | 131. | 140. |
| 1250 | 74. | 74. | 75. | 129. | 140. |
| 1600 | 74. | 75. | 75. | 130. | 140. |
| 2000 | 74. | 74. | 75. | 129. | 138. |
| 2500 | 74. | 74. | 75. | 128. | 137. |
| 3150 | 74. | 75. | 75. | 126. | 134. |
| 4000 | 77. | 78. | 78. | 123. | 134. |
| 5000 | 73. | 71. | 77. | 122. | 130. |
| 6300 | 73. | 77. | 75. | 120. | 125. |
| 8000 | 70. | 75. | 72. | 117. | 122. |
| 10000 | 67. | 71. | 70. | 114. | 117. |
| 12500 | 64. | 68. | 68. | 112. | 115. |
| 16000 | 61. | 65. | 66. | 109. | 114. |
| 20000 | 56. | 57. | 60. | 109. | 112. |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 72. | 73. | 144. | 147. |
| 125 | 75. | 75. | 77. | 147. | 149. |
| 250 | 80. | 81. | 80. | 143. | 147. |
| 500 | 82. | 84. | 82. | 141. | 145. |
| 1000 | 81. | £1. | 81. | 135. | 145. |
| 2000 | 79. | 79. | 80. | 134. | 143. |
| 4000 | 80. | 82. | 82. | 129. | 138. |
| 8000 | 15. | .03 | 78. | 122. | 127. |
| 16000 | 66. | 70. | 71. | 115. | 119. |

CONFIGURATION 16
VAR GEOM EXT LENGTH VAR GEOM 0/0 OPEN DZ = 100
POWER SETTING 10
READING NU. 327

| | | MICROPHO | ME POSITION | V | |
|--------------|-----|-------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 67. | 67. | 67. | 138. | 140. |
| 63 | 69. | 67. | 69. | 137. | 141. |
| 80 | 66. | 66. | 68. | 141. | 143. |
| 100 | 68. | 69. | 71. | 142. | 144. |
| 125 | 70. | 65. | 70. | 139. | 145. |
| 160 | 70. | 72. | 73. | 144. | 144. |
| 200 | 71. | 72. | 72. | 139. | 142. |
| 250 | 76. | 76. | 76. | 137. | 142. |
| 315 | 76. | 78. | 77. | 138. | 142. |
| 400 | 76. | 79. | 76. | 139. | 140. |
| 50 <i>0</i> | 76. | 70. | 78. | 132. | 140. |
| 630 | 77. | 77. | 78. | 127. | 140. |
| 800 | 78. | 77. | 78. | 129. | 141. |
| 1000 | 75. | 75. | 76. | 131. | 139. |
| 1250 | 74. | 74. | 75. | 129. | 140. |
| 1600 | 74. | 75. | 75. | 130. | 140. |
| 2000 | 73. | 74. | 75. | 129. | 138. |
| 2500 | 72. | 75. | 75. | 128. | 136. |
| 3150 | 74. | 76. | 75. | 126. | 133. |
| 4000 | 76. | 75. | 79. | 122. | 133. |
| 5000 | 73. | 78. | 78. | 122. | 130. |
| 6300 | 73. | 78. | 76. | 121. | 126. |
| 8000 | 10. | 75. | 72. | 116. | 121. |
| 10000 | 67. | 72. | 71. | 113. | 117. |
| 12500 | 63. | 6 8. | 69. | 111. | 115. |
| 16000 | 61. | 64. | 67. | 109. | 113. |
| 20000 | 55. | 57. | 60. | 109. | 111. |
| OCTAVE FREQ | | | | | |
| 63 | 72. | 71. | 73. | 144. | 146. |
| 125 | 74. | 75. | 76. | 147. | 149. |
| 250 | 80. | 81. | 80. | 143. | 147. |
| 500 | 81. | 83. | 82. | 140. | 145. |
| 100) | 81. | 80. | 81. | 135. | 145. |
| 2000 | 78. | 79. | 80. | 134. | 143. |
| 4000 | 75. | 83. | 82. | 129. | 137. |
| 8000 | 75. | £0. | 78. | 123. | 128. |
| 16000 | 66. | 70. | 71. | 115. | 118. |
| | | | _ | | |

CONFIGURATION 17
VAR GEOM EXT LENGTH VAR GEOM WELDED CLCSED DZ
POWER SETTING 40
READING NO. 369

| | | MICROPHO | NE POSITIC | N | |
|------------|------------|-------------|------------|------|------|
| 1/3 UCT FR | EQ 1 | 2 | 3 | 4 | 5 |
| 50 | 68. | 68. | 69. | 136. | 139. |
| 63 | 75. | 76. | 77. | 133. | 141. |
| 80 | 67. | 67. | 68. | 137. | 142. |
| 100 | 69. | 70. | 71. | 139. | 144. |
| 125 | 75. | 71. | 74. | 137. | 146. |
| 160 | 74. | 74. | 75. | 142. | 148. |
| 200 | 77. | 75. | 75. | 140. | 150. |
| 250 | 75. | 76. | 77. | 141. | 151. |
| 31 5 | 79. | 78. | 80. | 142. | 151. |
| 400 | 79. | EG. | 80. | 141. | 150. |
| 500 | 81. | 80. | 81. | 137. | 150. |
| 630 | £5. | 83. | 85. | 135. | 150. |
| 800 | 85. | 85. | 86. | 140. | 152. |
| 1000 | 84. | E4 . | 84. | 143. | 147. |
| 1250 | 82. | ٤2. | 83. | 135. | 146. |
| 1600 | 82. | €3. | 83. | 133. | 146. |
| 2000 | 82. | 83. | 83. | 133. | 145. |
| 2500 | 84. | £5 • | ٤6. | 132. | 143. |
| 3150 | 87. | 86. | 84. | 131. | 141. |
| 4000 | .83 | e7. | 85. | 127. | 139. |
| 5000 | E5. | 85. | 87. | 124. | 138. |
| 6300 | 82. | 84. | 85. | 124. | 133. |
| 8000 | 80. | 82. | 83. | 120. | 129. |
| 10000 | 79. | 63. | 82. | 116. | 124. |
| 12500 | 78. | 81. | 81. | 113. | 124. |
| 16000 | 75. | 77. | 78. | 110. | 122. |
| 20000 | 72. | 71. | 73. | 108. | 121. |
| | | | | | |
| OCTAVE FR | | | | | |
| 63 | 76. | 77. | 78. | 140. | 146. |
| 125 | 78. | 77. | 78. | 145. | 151. |
| 250 | 82. | 81. | 83. | 146. | 155. |
| 500 | 87. | 86. | e7. | 143. | 155. |
| 1000 | 89. | 85. | 89. | 145. | 154. |
| 2000 | 88. | 89. | 89. | 137. | 150. |
| 4000 | 92. | 51. | 90. | 133. | 144. |
| 8000 | 85. | .83 | 88. | 126. | 135. |
| 16000 | 80. | 83. | 83. | 116. | 127. |

CONFIGURATION 17
VAR GEOM EXT LENGTH VAR GECM WELDEC CLCSED DZ
POWER SETTING 40
REACING NO. 371

| | | MICROPHONE | POSITION | | |
|--------------|-----|-------------|----------|------|-------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 68. | 69. | 70. | 136. | 139. |
| 63 | 77. | 78. | 80. | 134. | 140. |
| 80 | 68. | 65. | 70. | 137. | 142. |
| 100 | 70. | 71. | 74. | 140. | 144. |
| 125 | 75. | 72. | 76. | 138. | 146. |
| 160 | 74. | 74. | 75. | 143. | 148. |
| 200 | 77. | 74. | 76. | 140. | 150. |
| 250 | 75. | 77. | 78. | 141. | 151. |
| 315 | 79. | 78. | 81. | 142. | 151. |
| 400 | 80. | 79. | 79. | 141. | 149. |
| 500 | 81. | £1. | 81. | 137. | 149. |
| 630 | 86. | E5. | 86. | 136. | 150. |
| 800 | 84. | 86. | 86. | 139. | 152. |
| 1000 | 84. | 84. | 85. | 144. | 148 - |
| 1250 | 83. | 83. | 83. | 135. | 145. |
| 1600 | 83. | 83 • | 84. | 134. | 146. |
| 2000 | 82. | 83 • | 83. | 133. | 145. |
| 2500 | 84. | 86. | 84. | 132. | 143. |
| 3150 | 88. | ٤7. | 85. | 130. | 142. |
| 4000 | 88. | .93 | 85. | 127. | 139. |
| 5000 | 86. | 86. | 87. | 124. | 139. |
| 6300 | 84. | 85. | 86. | 124. | 135. |
| 8000 | 81. | 82. | 84. | 120. | 129. |
| 10000 | 80. | 83. | 82. | 117. | 124. |
| 12500 | 78. | 82 • | 82. | 113. | 123. |
| 16000 | 76. | 77. | 79. | 110. | 122. |
| 20000 | 72. | 72. | 75. | 108. | 121. |
| OCTAVE FREQ | | | | | |
| 63 | 78. | 75. | 81. | 141. | 145. |
| 125 | 78. | 77. | 80. | 146. | 151. |
| 250 | 82. | 81. | 84. | 146. | 155. |
| 500 | 88. | £7. | 88. | 143. | 154. |
| 1000 | 88. | es. | 90. | 146. | 154. |
| 2000 | 88. | 89. | 88. | 138. | 150. |
| 4000 | 92. | 52. | 91. | 132. | 145. |
| 8000 | 67. | .88 | 89. | 126. | 136. |
| 16000 | 81. | 84. | 84. | 116. | 127. |

CONFIGURATION 17
VAR GEDM EXT LENGTH VAR GEOM WELDED CLCSED DZ
POWER SETTING 55
HEADING NO. 373

| | | MICROPHO | NE POSITIO | N | |
|--------------|------------|-------------|------------|------|-------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 71. | 71. | 77. | 135. | 141. |
| 63 | 77. | 78. | 87. | 135. | 142. |
| 80 | 67. | 67. | 72. | 138. | 143. |
| 100 | 70. | 69. | 73. | 140. | 146. |
| 125 | 75. | 75. | 78. | 139. | 146. |
| 160 | 75. | 75. | 78. | 143. | 148. |
| 200 | 77. | 75. | 80. | 141. | 150. |
| 250 | 79. | 78. | 80. | 142. | 150 - |
| 315 | 81. | 60. | 82. | 142. | 152. |
| 400 | 80. | e1. | 81. | 141. | 1.51. |
| 500 | 83. | 84. | 83. | 139. | 150. |
| 630 | 86. | E5 . | 86. | 137. | 152. |
| 800 | 86. | £6. | 88. | 140. | 153. |
| 1000 | 85. | ٤5. | £6. | 145. | 150 • |
| 1250 | 85. | ٤5. | 85. | 137. | 147. |
| 1600 | 86. | ٤7. | 87. | 135. | 147. |
| 2000 | 85. | 66. | 85. | 134. | 146. |
| 2500 | 86. | .33 | 85. | 133. | 144. |
| 3150 | 88. | 66. | 87. | 132. | 142. |
| 4000 | 89. | 85. | 87. | 129. | 141. |
| 5000 | 87. | .99 | 90. | 125. | 139. |
| 6300 | 84. | 86. | 88. | 126. | 135. |
| 8000 | 81. | 85. | 88. | 121. | 131. |
| 10000 | 81. | 85. | 88. | 118. | 125. |
| 12500 | 80. | 84. | 88. | 115. | 124. |
| 16000 | 77. | 79. | £5. | 111. | 122. |
| 20000 | 75. | 73. | 80. | 109. | 121. |
| | | | | | |
| OCTAVE FREQ | | | | | |
| 63 | 78. | 79. | 88. | 141. | 147. |
| 125 | 79. | 75. | 82. | 146. | 152. |
| 250 | 64. | 83. | 86. | 146. | 156. |
| 500 | 88. | 68. | 89. | 144. | 156. |
| 1000 | 90. | 90. | 91. | 147. | 155. |
| 2000 | 90. | 52. | 91. | 139. | 151. |
| 4000 | 93. | 93. | 93. | 134. | 146. |
| 8000 | ٤7. | 90. | 93. | 128. | 137. |
| 16000 | 83. | ٤5. | 90. | 117. | 127. |

CONFIGURATION 17
VAR GEOM EXT LENGTH VAR GECM WELDED CLCSED DZ
POWER SETTING 75
READING NO. 375

| | | MICROPHO | NE POSITION | | |
|--------------|-------------|-------------|-------------|------|------|
| 1/3 UCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 77. | 77. | 77. | 138. | 142. |
| 63 | 86. | E5 . | 86. | 136. | 141. |
| 80 | 73. | 73. | 73. | 138. | 144. |
| 100 | 73. | 74. | 75. | 142. | 148. |
| 125 | 79. | 77. | 79. | 140. | 148. |
| 160 | 78. | 78. | 79. | 143. | 148. |
| 200 | 80. | 75. | 81. | 142. | 151. |
| 250 | 80. | 78. | 80. | 142. | 151. |
| 315 | 82. | 81. | 82. | 143. | 152 |
| 400 | 81. | 81. | 81. | 142. | 151. |
| 500 | 84. | 81. | 84. | 140. | 150. |
| 630 | 87. | 85. | 87. | 137. | 152. |
| 800 | ٤7. | 85. | 89. | 140. | 152. |
| 1000 | 87. | .38 | 88. | 146. | 151. |
| 1250 | e7. | £6. | 86. | 139. | 148 |
| 1600 | 86. | 67. | 87. | 136. | 148. |
| 2900 | E5 . | £6. | 85 . | 135. | 147. |
| 2500 | e5 . | 85. | 85 . | 134. | 145. |
| 3150 | 89. | 50. | 88. | 132. | 144. |
| 4000 | 90. | 51. | 90. | 130. | 142. |
| 5000 | 89. | 50. | 92. | 125. | 140. |
| 6300 | .89 | ٤5. | 92. | 128. | 138. |
| 8000 | 86. | £7. | 90. | 122. | 133. |
| 10000 | E5 . | 85. | 51. | 119. | 127. |
| 12500 | €5• | 90. | 92. | 115. | 125. |
| 16000 | 82. | £3 . | 89. | 111. | 123. |
| 20000 | 78. | 78. | e1. | 108. | 122. |
| OCTAVE FREQ | | | | | |
| 63 | 87. | 86. | 87. | 142. | 147. |
| 125 | 82. | 81. | 83. | 147. | 153. |
| 250 | 86. | ٤4. | 86. | 147. | 157. |
| 500 | 89. | .39 | 89. | 145. | 156. |
| 1000 | 92. | 93. | 93. | 148. | 155. |
| 2000 | SÚ. | 52 . | 91. | 140. | 152. |
| 4000 | 94. | 95. | 95. | 135. | 147. |
| 8000 | 91. | 93. | 56. | 129. | 139. |
| 16000 | 87. | 51. | 54. | 117. | 128. |

CONFIGURATION 17
VAR GEOM EXT LENGTH VAR GEOM WELDEC CLCSED CZ
POWER SETTING 100
READING NO. 377

| | | MICROPHO | NE POSITIO | N | |
|--------------|-------------|-------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 76. | 76. | 78. | 138. | 142. |
| 63 | £5 . | £5. | 87. | 137. | 144. |
| 80 | 72. | 73. | 73. | 140. | 144. |
| 100 | 74. | 76. | 76. | 157. | 147. |
| 125 | 79. | 79. | 80. | 140. | 148. |
| 160 | 78. | 76. | 78. | 143. | 150. |
| 200 | ٤1. | 79. | 81. | 145. | 152. |
| 250 | 79. | 78. | 80. | 143. | 152. |
| 315 | 81. | .03 | 80. | 142. | 152. |
| 400 | 81. | £0. | 80. | 141. | 152. |
| 500 | 83. | 82. | 83. | 142. | 150. |
| 630 | 85. | £5 . | 85. | 137. | 152. |
| 800 | 87. | 88. | .88 | 139. | 152. |
| 1000 | 88. | 89. | 87. | 148. | 152. |
| 1250 | • 3 3 | ٤7. | 87. | 141. | 149. |
| 1600 | 88. | 89. | 91. | 136. | 148. |
| 2000 | 87. | .83 | 88. | 136. | 147. |
| 2500 | 67. | 92 • | 89. | 135. | 146. |
| 3150 | 90. | 90. | 89. | 132. | 145. |
| 4000 | 93. | 92. | 51. | 131. | 143. |
| 5000 | 92. | 91. | 94. | 127. | 141. |
| 63Ú Ú | 92. | 52 • | 55. | 127. | 139. |
| 8000 | 92. | 51. | 54. | 121. | 134. |
| 10000 | 89. | 91. | 54. | 118. | 128. |
| 12500 | 88. | 90. | 93. | 115. | 127. |
| 16000 | 66. | 86. | 91. | 111. | 123. |
| 20000 | 81. | 75. | 86. | 109. | 122. |
| OCTAVE EDEO | | | | | |
| OCT AVE FREQ | 0.4 | 0.4 | 0.0 | 142 | 140 |
| 63 | 86. | 86. | 88. | 143. | 148. |
| 125 | 82. | 83. | 83. | 157. | 153. |
| 250 | 85. | 64. | 85. | 148. | 157. |
| 500 | 88. | .83 | 88. | 145. | 156. |
| 1000 | 92. | 93. | 92. | 149. | 156. |
| 2000 | 92. | 95. | 94. | 140. | 152. |
| 4000 | 97. | 96. | 97 . | 135. | 148. |
| 8000 | 96. | 96 . | 99 . | 128. | 140. |
| 16000 | 91. | 52. | 96. | 117. | 129. |

CCNFIGURATION 17
VAR GEOM EXT LENGTH VAR GEOM WELDED CLOSED DZ
PUWER SETTING 4UR
FEADING NO. 379

| | | MICROPHO | NE POSITIC | N | |
|--------------|-----|-------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 71. | 70. | 72. | 131. | 138. |
| 63 | 79. | 78. | 80. | 132. | 142. |
| 89 | 69. | 70. | 71. | 133. | 141. |
| 100 | 71. | 72. | 73. | 137. | 143. |
| 125 | 76. | 77. | 79. | 136. | 144. |
| 160 | 74. | 74. | 75. | 138. | 146. |
| 200 | 76. | 74. | 75. | 142. | 147. |
| 250 | 75. | 75. | 76. | 136. | 147. |
| 315 | 79. | 78. | 80. | 137. | 148. |
| 400 | 79. | 80. | 79. | 138. | 147. |
| 500 | 80. | 80. | 80. | 140. | 148. |
| 630 | 85. | 86. | 85. | 138. | 150. |
| 800 | 8ć. | 66. | 87. | 142. | 152. |
| 1000 | 84. | 84. | 85. | 139. | 148. |
| 1250 | 84. | 84. | 84. | 137. | 147. |
| 1600 | 85. | 86. | ٤7. | 136. | 147. |
| 2000 | 84. | 85. | E5 . | 136. | 147. |
| 2500 | 84. | 89. | 85. | 136. | 144. |
| 3150 | 86. | ٤t. | 85. | 135. | 143. |
| 4000 | 87. | ٤7. | 85. | 135. | 141. |
| 5000 | 86. | .39 | 87. | 130. | 139. |
| 6300 | ٤5. | .83 | 89. | 129. | 136. |
| 8000 | 82. | 66. | 89. | 123. | 132. |
| 10000 | 81. | 86. | 85. | 123. | 126. |
| 12500 | 79. | E4 • | 84. | 119. | 124. |
| 16000 | 76. | 78. | 81. | 115. | 123. |
| 20000 | 72. | 72. | 77. | 110. | 122. |
| OCTAVE FREQ | | | | | |
| 63 | 80. | 75. | 81. | 137. | 145. |
| 125 | 79. | eu. | 81. | 142. | 149. |
| 250 | 82. | 61. | 82. | 144. | 152. |
| 500 | 87. | 68. | 87. | 144. | 153. |
| 1000 | 90. | 90. | 90. | 145. | 154. |
| 2000 | 89. | 92. | 91. | 141. | 151. |
| 4000 | 91. | 92. | 91. | 139. | 146. |
| 8000 | 88. | 92. | 93. | 131. | 138. |
| 16000 | £1. | 85. | 86. | 121. | 128. |
| | | | | | |

CONFIGURATION 17
VAR GEOM EXT LENGTH VAR GEOM WELDED CLOSED DZ
POWER SETTING 55R
READING NU. 381

| | | MICROPHO | NE POSITIO | N | |
|--------------|-------------|-------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 71. | 76. | 78. | 134. | 139. |
| 63 | 78. | E5. | 87. | 133. | 142. |
| 80 | 69. | 72. | 73. | 134. | 142. |
| 100 | 71. | 72. | 74. | 136. | 144. |
| 125 | 77. | 78. | 80. | 137. | 145. |
| 160 | 74. | 77. | 78. | 140. | 146. |
| 200 | 75. | 79. | 8 0. | 144. | 148. |
| 250 | 76. | 76. | 78. | 137. | 148. |
| 315 | 79. | 75. | 81. | 137. | 149. |
| 400 | .09 | e0. | 81. | 138. | 148. |
| 500 | 80. | 80. | 81. | 141. | 149. |
| 630 | 84. | £5 . | 86. | 138. | 151. |
| 800 | 85. | 85. | 86. | 142. | 153. |
| 1000 | 84. | 85 . | ٤5. | 141. | 150. |
| 1250 | 84. | 84. | 85. | 139. | 148. |
| 1600 | 84. | £5 • | 86. | 137. | 148. |
| 2000 | 84. | €5. | 86. | 137. | 148. |
| 2500 | 85. | .33 | 86. | 136. | 145. |
| 3150 | 89. | 86. | 87. | 136. | 144. |
| 4000 | 90. | 68. | 88. | 135. | 142. |
| 5000 | 90. | 88. | 89. | 131. | 140. |
| 6300 | 89. | 89. | 92. | 129. | 138. |
| 8000 | 86. | 86. | 91. | 124. | 133. |
| 10000 | 83. | ٤7. | 91. | 124. | 127. |
| 12500 | 83. | £5 . | 90. | 119. | 125. |
| 16000 | 80. | 81. | 86. | 116. | 123. |
| 20000 | 76. | 75. | 81. | 111. | 122. |
| | | | | | |
| OCTAVE FREQ | | | | | |
| 63 | 79. | .33 | 88. | 138. | 146. |
| 125 | 79. | 81. | 83. | 143. | 150. |
| 250 | 82. | 83. | 85. | 145. | 153. |
| 500 | 87. | ٤7. | 88. | 144. | 154. |
| 1000 | 89. | 89. | 90. | 146. | 156. |
| 2000 | 89. | 91. | 91. | 141. | 152. |
| 4000 | 94. | 92. | 93. | 139. | 147. |
| 8000 | 91. | 92. | 96. | 131. | 139. |
| 16000 | e5 . | e7. | 92. | 121. | 128. |

CONFIGURATION 17
VAR GEDM EXT LENGTH VAR GEOM WELDED CLCSED DZ
POWER SETTING 75R
READING NU. 383

| | | MICROPHONE | PCSITION | | |
|----------------|-----|------------|-------------|------|-------|
| 1/3 UCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 17. | 76. | 78. | 134. | 139. |
| 63 | 85. | ٤5. | 87. | 134. | 141. |
| 80 | 72. | 73. | 74. | 136. | 143. |
| 100 | 72. | 74. | 75. | 138. | 145. |
| 125 | 77• | 78. | 80. | 138. | 145. |
| 160 | 77. | 77. | 78. | 140. | 147. |
| 200 | 79. | 78. | 80. | 144. | 149. |
| 250 | 77. | 76. | 79. | 139. | 149. |
| 315 | 80. | 79. | 81. | 138. | 150. |
| 400 | 80. | 80. | 8 0. | 140. | 149. |
| 500 | 82. | 81. | 82. | 141. | 149. |
| 630 | 85. | 86. | 86. | 139. | 151. |
| 800 | 85. | e7. | 87. | 141. | 152. |
| 1000 | 85. | E7. | 87. | 142. | 151. |
| 1250 | 85. | ٤5. | 84. | 140. | 148. |
| 1600 | 84. | ٤5. | 85. | 137. | 149. |
| 2000 | 85. | e7. | 87. | 137. | 148. |
| 2500 | 87. | 90. | 86. | 137. | 146. |
| 3150 | 90. | 89. | 88. | 137. | 144. |
| 4000 | 92. | 91. | 90. | 135. | 142. |
| 5000 | 92. | 51. | 93. | 131. | 140. |
| 6300 | 91. | 50. | 96. | 128. | 146. |
| 8000 | 90. | 89. | 54. | 125. | 133. |
| 10000 | 87. | 89. | 95. | 124. | 128. |
| 12500 | 86. | 89. | 94. | 119. | 125. |
| 16000 | 84. | 84. | 90. | 116. | 123. |
| 20 0 00 | 80. | 78. | 85. | 110. | 122. |
| OCTAVE FORO | | | | | |
| OCTAVE FREQ | 0.4 | 0.4 | 0.0 | 1.0 | 9.4.4 |
| 63 | 86. | 86. | 88. | 140. | 146. |
| 125 | 81. | 81. | 83. | 144. | 151. |
| 250 | 84. | 83. | 85. | 146. | 154. |
| 500 | 88. | 88. | 88. | 145. | 155. |
| 1000 | 90. | 91. | 91. | 146. | 155. |
| 2000 | 90. | 53. | 91. | 142. | 153. |
| 4000 | 96. | 95. | 96. | 140. | 147. |
| 8000 | 94. | 94. | 100. | 131. | 141. |
| 16000 | 89. | 90. | 56. | 121. | 128. |

CONFIGURATION 17
VAR GEOM EXT LENGTH VAR GEOM WELDEC CLOSED DZ
POWER SETTING 100R
READING NU. 365

A STATE OF THE STA

| | | MICROPHONE | PCSITION | | |
|--------------|-------------|-------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 77. | 76. | 78. | 135. | 142. |
| 63 | £6. | 85. | 87. | 135. | 142. |
| 80 | 72. | 73. | 74. | 135. | 143. |
| 100 | 73. | 74. | 75. | 139. | 146. |
| 125 | 78. | 78. | 80. | 140. | 147. |
| 160 | 77. | 77. | 78. | 140. | 147. |
| 200 | 79. | 79. | 80. | 146. | 149. |
| 250 | 78. | 77. | 79. | 140. | 150. |
| 315 | 81. | 80. | 82. | 139. | 151. |
| 400 | £3 . | 83. | 83. | 140. | 150. |
| 500 | 81. | 81. | 82. | 142. | 150. |
| 630 | 84. | e5 . | 85. | 140. | 151. |
| 800 | €5. | 66. | 86. | 140. | 152. |
| 1000 | 86. | 85. | 89. | 143. | 153. |
| 1250 | ٤7. | E7. | 86. | 141. | 150. |
| 1600 | 85. | 87. | £6. | 138. | 150. |
| 2000 | 86. | 68. | 88. | 138. | 149. |
| 2500 | 88. | 91. | 88. | 138. | 147. |
| 3150 | 91. | 92. | 89. | 138. | 146. |
| 4000 | 54. | 96. | 92. | 137. | 144. |
| 5000 | 92. | 57. | 55. | 133. | 142. |
| 6300 | 92. | 58. | 56. | 129. | 143. |
| 8000 | 91. | 56. | 95. | 127. | 136. |
| 10000 | 91. | 55. | 96. | 126. | 130. |
| 12500 | 89. | 53. | 96. | 120. | 127. |
| 16000 | 87. | e9 • | 94. | 117. | 124. |
| 20000 | 83. | 83. | e7. | 111. | 122. |
| OCTAVE FREQ | | | | | |
| 63 | 87. | e6. | 88. | 140. | 147. |
| 125 | 81. | 81. | 83. | 144. | 151. |
| 250 | 84. | 84. | 85. | 148. | 155. |
| 500 | 88. | 66. | 88. | 146. | 155. |
| 1000 | 91. | 92. | 92. | 146. | 157. |
| 2000 | 91. | 54. | 92. | 143. | 154. |
| 4000 | 97. | 100. | 57. | 141. | 149. |
| 8000 | 96. | 101. | 100. | 132. | 144. |
| 16000 | 92. | 95. | 98. | 122. | 130. |
| | | | | | |

CONFIGURATION 18 EARLY QUENCH POWER SETTING 25 READING NO. 358

| | | MICROPHO | NE POSITION | | |
|--------------|-------------|------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 66. | £6. | 68. | 138. | 142. |
| 63 | 74. | 73. | 75. | 136. | 142. |
| 80 | 65. | 66. | 69. | 141. | 143. |
| 100 | 84. | 51. | 55. | 156. | 154. |
| 125 | 69. | 70. | 71. | 142. | 147. |
| 160 | 73. | 74. | 72. | 148. | 148. |
| 200 | 75. | 73. | 74. | 144. | 147. |
| 250 | 72. | 72. | 73. | 142. | 145. |
| 315 | 75. | 75. | 76. | 141. | 145. |
| 400 | 75. | 76. | 76. | 142. | 143. |
| 500 | 79. | 80. | 80. | 138. | 143. |
| 630 | 79. | 80. | 81. | 132. | 142. |
| 800 | 79. | 80. | 80. | 133. | 143. |
| 1000 | 79. | 80. | 80. | 136. | 142. |
| 1250 | 78. | 79. | 79. | 132. | 141. |
| 1600 | 79. | 82. | 81. | 132. | 142. |
| 2000 | 79. | 83. | 81. | 132. | 141. |
| 2500 | 82. | E6. | 81. | 131. | 139. |
| 3150 | 86. | ٤5. | 86. | 129. | 136. |
| 4000 | 86. | 51. | 89. | 126. | 136. |
| 5000 | . 69 | 50. | 90. | 124. | 135. |
| 6300 | 89. | 90. | 90. | 123. | 129. |
| 8000 | 87. | .83 | 90. | 120. | 125. |
| 10000 | 86. | E7. | 89. | 116. | 121. |
| 12500 | 84. | E5. | 87. | 113. | 117. |
| 16000 | 81. | 82. | 85. | 109. | 113. |
| 20000 | 75. | 76. | 80. | 107. | 110. |
| | | | | | |
| OCTAVE FREQ | -2/2 | | =_ | 147 | |
| 63 | 75. | 74. | 77. | 144. | 147. |
| 125 | 84. | 51. | 95. | 157. | 156. |
| 250 | 79. | 78. | 79. | 147. | 151. |
| 500 | 83. | 84. | 84. | 144. | 147. |
| 1000 | 83. | 84. | 84. | 139. | 147. |
| 2000 | 85. | 89. | 86. | 136. | 146. |
| 4000 | 91. | 55. | 93. | 132. | 140. |
| 8000 | 92. | 93. | 94. | 125. | 131. |
| 16000 | .63 | 87. | 90. | 115. | 119. |

CONFIGURATION 18 EARLY QUENCH POWER SETTING 40 READING NO. 366

| | | MICROPHONE | PCSITICN | | |
|--------------|------------|-------------|----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 77. | 75. | 76. | 141. | 142. |
| 53 | 86. | E4 . | 86. | 139. | 144. |
| 80 | 71. | 71. | 73. | 143. | 146. |
| 100 | 72. | 72. | 75. | 146. | 148. |
| 125 | 77. | 75. | 76. | 144. | 149. |
| 160 | 77. | 77. | 79. | 149. | 149. |
| 200 | 80. | 75. | 80. | 147. | 150. |
| 250 | 79. | 78. | 79. | 145. | 148. |
| 315 | 80. | 81. | 81. | 144. | 147. |
| 400 | 80. | 82. | 79. | 144. | 145. |
| 500 | 81. | ٤1. | 80. | 141. | 145. |
| 630 | 82. | 83. | 83. | 133. | 146. |
| 800 | 82. | 82. | 83. | 134. | 146. |
| 1000 | 82. | 83. | 83. | 137. | 144. |
| 1250 | 81. | 83. | 82. | 133. | 144. |
| 1600 | 83. | E4 • | 84. | 133. | 144. |
| 2000 | 83. | 86. | 84. | 133. | 143. |
| 2500 | 85. | . 93 | 86. | 133. | 142. |
| 3150 | 88. | 90. | 89. | 132. | 138. |
| 4000 | 89. | 92. | 52. | 129. | 138. |
| 5000 | 89. | 53. | 95. | 125. | 137. |
| 6300 | 92. | 92. | 95. | 126. | 133. |
| 3000 | 91. | 85. | 94. | 123. | 130. |
| 10000 | 89. | 85. | 93. | 119. | 125. |
| 12500 | 87. | 66. | 93. | 119. | 124. |
| 16000 | 84. | 84. | 90. | 118. | 121. |
| 20000 | 81. | 78. | E4. | 118. | 120. |
| | | | | | |
| OCTAVE FREQ | | | | | |
| 63 | 87. | E5 . | 87. | 146. | 149. |
| 125 | 81. | eo. | 82. | 152. | 153. |
| 250 | 84. | 84. | ٤5. | 150. | 153. |
| 500 | £6. | 87. | 86. | 146. | 150. |
| 1000 | 86. | 87. | 87. | 140. | 150. |
| 2000 | 89. | 51. | 90. | 138. | 148. |
| 4000 | 93. | 97. | 57. | 134. | 142. |
| 8000 | 56. | 55. | 99. | 128. | 135. |
| 16060 | 89. | 89. | 95. | 123. | 127. |

CONFIGURATION 18
EARLY QUENCH
POWER SETTING 40
READING NO. 356

| | | MICROPHO | NE POSITION | | |
|--------------|-------------|-------------|-------------|------|------|
| 1/3 JCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 75. | 74. | 76. | 141. | 143. |
| 63 | 84. | E4 . | £5. | 138. | 144. |
| 30 | 71. | 70. | 72. | 143. | 146. |
| 100 | £5 • | 51. | 57. | 157. | 157. |
| 125 | 76. | 75. | 76. | 143. | 149. |
| 150 | 77. | 77. | 78. | 149. | 150. |
| 200 | 80. | 75. | 80. | 147. | 150. |
| 250 | 77. | 77. | 77. | 145. | 148. |
| 315 | 81. | 80. | 81. | 143. | 148. |
| 400 | 80. | 81. | 80. | 144. | 146. |
| 500 | 80. | 81. | 82. | 141. | 146. |
| 630 | 82. | 83. | 83. | 133. | 146. |
| 800 | 81. | £2• | 82. | 134. | 146. |
| 1000 | 82. | E3 . | 83. | 138. | 144. |
| 1250 | 91. | 86. | 86. | 134. | 144. |
| 1600 | 92. | 91. | 90. | 134. | 144. |
| 2000 | 83. | E5 . | 83. | 134. | 143. |
| 2500 | .89 | ٤7. | 84. | 133. | 142. |
| 315U | 88. | 50. | 88. | 132. | 139. |
| 4000 | .88 | 93. | 92. | 129. | 138. |
| 5000 | 88. | 53. | 93. | 125. | 137. |
| 6300 | 91. | 92. | 91. | 125. | 133. |
| 8000 | 89. | 50. | 51. | 123. | 129. |
| 10000 | 89. | 89. | 92. | 118. | 124. |
| 12500 | ٤7. | 87. | 92. | 115. | 123. |
| 16000 | 84. | ٤4. | 89. | 110. | 121. |
| 20000 | 79. | 78. | 83. | 108. | 120. |
| OCTAVE FREQ | | | | | |
| 63 | 85. | £5 . | 86. | 146. | 149. |
| 125 | 86. | 51. | 57. | 158. | 158. |
| 250 | 84. | 84. | 84. | 150. | 154. |
| 500 | 86. | ٤7. | 87. | 146. | 151. |
| 1000 | 92. | 85. | 89. | 141. | 150. |
| 2000 | 54. | 93. | 92. | 138. | 148. |
| 4000 | 93. | 57. | 96. | 134. | 143. |
| 3000 | 95. | 55. | 96. | 128. | 135. |
| 16000 | 89. | 69. | 94. | 117. | 126. |

CONFIGURATION 18 EARLY QUENCH POWER SETTING 55 READING NO. 394

| | | MICROPHI | CHE POSITION | | |
|--------------|-----|-------------|--------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 75. | 75. | 77. | 143. | 145. |
| 63 | 84. | 84. | ٤6. | 140. | 145. |
| 80 | 70. | 71. | 13. | 144. | 146. |
| 100 | 86. | 89. | 92. | 160. | 156. |
| 125 | 77. | 77. | 78. | 144. | 149. |
| 160 | 78. | 78. | 79. | 148. | 150. |
| 200 | 80. | 75. | 81. | 148. | 151. |
| 250 | 79. | 75. | 79. | 146. | 148. |
| 315 | 81. | 81. | 81. | 144. | 148. |
| 400 | 80. | ε1. | 80. | 145. | 146. |
| 500 | 81. | e1. | 81. | 143. | 146. |
| 630 | 82. | 83. | 83. | 134. | 146. |
| 800 | 82. | 82. | 83. | 135. | 146. |
| 1000 | 82. | 83. | 84. | 139. | 145. |
| 1250 | 82. | E3. | 84. | 135. | 145. |
| 1600 | 83. | £5. | 85. | 134. | 144. |
| 2000 | 84. | 87. | 86. | 135. | 143. |
| 2500 | .83 | 89. | E6. | 133. | 142. |
| 3150 | 89. | 51. | 90. | 132. | 140. |
| 4000 | 89. | 55. | 94. | 129. | 138. |
| 50G Q | 91. | 95. | 97. | 126. | 138. |
| 6300 | 94. | 95 . | 96. | 127. | 135. |
| 8000 | 93. | 43. | 54. | 122. | 130. |
| 10000 | 92. | 53. | 94. | 119. | 125. |
| 12500 | 89. | 91. | 95. | 119. | 124. |
| 16000 | 86. | 88. | 92. | 118. | 122. |
| 20000 | 81. | 81. | £5 . | 117. | 121. |
| OCTAVE FREQ | | | | | |
| 63 | 85. | E5 . | 87. | 147. | 150. |
| 125 | 87. | 90. | 92. | 160. | 158. |
| 250 | 85. | £5. | 85. | 151. | 154. |
| 500 | 86. | 67. | 86. | 147. | 151. |
| 1000 | 67. | £7. | 88. | 142. | 150. |
| 2000 | 90. | 52. | 90. | 139. | 148. |
| 4000 | 95. | 55. | 99. | 134. | 144. |
| 8000 | 58. | 55. | 100. | 129. | 137. |
| 16000 | 91. | 93. | 57. | 123. | 127. |
| | | | • | | |

CONFIGURATION 18 EARLY QUENCH POWER SETTING 55 READING NO. 388

| | | MICROPHO | NE POSITIO | N | |
|--------------|------------|-------------|-------------|--------------|--------------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 75. | 74. | 77. | 142. | 144. |
| 63 | 84. | 83. | 86. | 140. | 145. |
| 80 | 71. | 71. | 73. | 144. | 146. |
| 100 | 72. | 73. | 75. | 148. | 148. |
| 125 | 77. | 76. | 77. | 145. | 149. |
| 160 | 77. | 78. | 78. | 149. | 149. |
| 200 | 80. | . US | 81. | 149. | 151. |
| 250 | 79. | 79. | 80. | 146. | 149. |
| 315 | 81. | .03 | 81. | 145. | 149. |
| 400 | .03 | 82. | 80. | 145. | 147. |
| 500 | 81. | .09 | 81. | 143. | 147. |
| 630 | 82. | 83. | 83. | 134. | 147. |
| 800 | 82. | 82. | 83. | 135. | 147. |
| 1000 | 82. | 83. | 84. | 139. | 145. |
| 1250 | 82. | €3. | 83. | 135. | 145 - |
| 1600 | 83. | E5 . | 84. | 134. | 145. |
| 2000 | 83. | 87. | 86. | 134. | 144. |
| 2500 | 87. | .33 | 86. | 133. | 143. |
| 3150 | 89. | 50. | 91. | 132. | 140 • |
| 4000 | 90. | 53. | 94. | 129. | 138. |
| 5000 | 91. | 54. | 58. | 126. | 138. |
| 6300 | 94. | 54. | 97. | 127. | 135. |
| 8000 | 94. | 52. | 55 • | 122. | 130. |
| 10000 | 93. | 52. | 56. | 119. | 125. |
| 12500 | 89. | 89. | 96. | 119. | 124. |
| 16000 | ٤7. | 86. | 94. | 118. | 122. |
| 20000 | 82. | 80. | 88. | 118. | 121. |
| | | | | | |
| OCTAVE FREQ | | • / | 0.7 | 147. | 150. |
| 63 | 85. | £4. | 87. | 152. | 153. |
| 125 | 81. | 81. | 82. | | 155. |
| 250 | `5. | 84. | 85. | 152. 147. | 152. |
| 500 | 86. | £7. | 86. | | |
| 1000 | 87. | 87 . | 88. | 142. 138. | 151. 149. |
| 2000 | 90• | 52. | 90. | 134. | 144. |
| 4000 | 95. | 57. | 100. | | |
| 8000 | 58. | 98. Cl | 101. | 129. | 137. |
| 16000 | 92. | 51. | 99. | 123. | 127. |

CONFIGURATION 18 EARLY QUENCH POWER SETTING 75 READING NO. 390

| | | MICROPHO | NE POSITIO | N | |
|--------------|------------|-------------|------------|-------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 75. | 75. | 77. | 143. | 144. |
| 63 | 84. | £4. | 86. | 143. | 145. |
| 80 | 71. | 72. | 73. | 144. | 147. |
| 100 | 73. | 74. | 76. | 150. | 151. |
| 125 | 77. | 77. | 78. | 146. | 151. |
| 160 | 77. | 78. | 79. | 149. | 150. |
| 200 | 80. | 80. | 81. | 150. | 151. |
| 250 | 79. | 79. | 80. | 147. | 149. |
| 315 | 81. | 80. | 81. | 146. | 149. |
| 400 | 80. | 81. | 80. | 146. | 148. |
| 500 | 81. | 81. | 81. | 145. | 147. |
| 630 | 83. | 83. | 84. | 135. | 147. |
| 800 | 83. | 84. | 85. | 136. | 147. |
| 1000 | 83. | E5. | 86. | 140. | 146. |
| 125 0 | 83. | 85. | 86. | 136. | 145. |
| 1600 | 85. | £6. | 87. | 135. | 146. |
| 2000 | 86. | 89. | 88. | 135. | 145. |
| 2500 | 89. | 91. | 88. | 134. | 144. |
| 3150 | 90. | 52. | 91. | 132. | 141. |
| 4000 | 90. | 54. | 94. | 130. | 140. |
| 5000 | 92. | 55 • | 57. | 126. | 138. |
| 6300 | 95. | 54. | 57. | 128. | 138. |
| 8000 | 95. | 93. | 95. | 123. | 131. |
| 10000 | 95. | 92. | 96. | 119. | 127. |
| 12500 | 93. | 90. | 97. | 120 . | 125. |
| 16000 | 91. | ٤7. | 96. | 118. | 123. |
| 20000 | 85. | £1. | 89. | 118. | 121. |
| OCTAVE FREQ | | | | | |
| 63 | 85. | £5. | 87. | 148. | 150. |
| 125 | 81. | 81. | 83. | 153. | 155. |
| 250 | ٤5. | 64. | 85. | 153. | 155. |
| 500 | 86. | 87. | 87. | 149. | 152. |
| 1000 | 88. | £9. | 90. | 143. | 151. |
| 2000 | 92. | 94. | 92. | 139. | 150. |
| 4000 | 96. | 99. | 99. | 135. | 145. |
| 8000 | 100. | 98. | 101. | 130. | 139. |
| 16000 | 56. | 92. | 100. | 124. | 128. |

CONFIGURATION 18
EARLY QUENCH
POWER SETTING 100
READING NO. 352

| | | MICROPHONE | POSITION | | |
|--------------|-------------|-------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 86. | 76. | 86. | 145. | 146. |
| 63 | 86. | 85. | 95. | 143. | 145. |
| 80 | 82. | 72. | 80. | 144. | 148. |
| 100 | 84. | 75. | 80. | 153. | 167. |
| 125 | 83. | 78. | 80. | 148. | 151. |
| 160 | 82. | 78. | 85. | 149. | 151. |
| 200 | 83. | 80. | 89. | 153. | 152. |
| 250 | 83. | 75. | 82. | 149. | 150. |
| 315 | 92. | ٤1. | 82. | 147. | 150. |
| 400 | 82. | 82. | 81. | 146. | 149. |
| 500 | 82. | 82. | 83. | 147. | 148. |
| 630 | 82. | 84. | 85. | 137. | 148. |
| 800 | 84. | 84. | 87. | 137. | 148. |
| 1000 | 84. | £6. | 88. | 140. | 147. |
| 1250 | E5 . | 87. | 88. | 138. | 146. |
| 1600 | 86. | 88. | 89. | 136. | 147. |
| 2000 | ٤7. | 90. | 90. | 136. | 146. |
| 2500 | 89. | 53. | 89. | 134. | 144. |
| 3150 | 92. | 55. | 52. | 132. | 142. |
| 4000 | 93. | 57. | 55. | 131. | 141. |
| 5000 | 54. | 58. | 96. | 129. | 139. |
| 6300 | 96. | 98 • | 58. | 129. | 138. |
| 8000 | 58. | 57. | 97. | 123. | 133. |
| 10000 | 97. | 57. | 99. | 119. | 127. |
| 12500 | 55. | 95. | 99. | 120. | 126. |
| 16000 | 92. | 53. | 98. | 118. | 123. |
| 20000 | £5 . | £5 • | 91. | 118. | 121. |
| OCTAVE FREQ | | | | | |
| 63 | 90. | £6 . | 96. | 149. | 151. |
| 125 | 88. | 82. | 87. | 155. | 167. |
| 250 | 87. | £5. | 90. | 155. | 156. |
| 500 | 87. | 88. | 88. | 150. | 153. |
| 1000 | 89. | 91. | 92. | 143. | 152. |
| 2000 | 92. | 56. | 94. | 140. | 151. |
| 4000 | 58. | 102. | 99. | 136. | 146. |
| 8000 | 102. | | 103. | 130. | 139. |
| 16000 | 97. | | 102. | 124. | 129. |

CCNFIGURATION 15 CELAYED DILUTION POWER SETTING 10 READING NU. 412

| | | MICROPHO | NE POSITIO | .N | |
|----------------|--------------|-------------|------------|------|------|
| 1/3 UCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 67. | 71. | 0. | 136. | 137. |
| 63 | 68. | 75. | Ú. | 134. | 138. |
| 80 | 65. | 65. | 0. | 139. | 142. |
| 100 | 84. | 89. | 0. | 153. | 154. |
| 125 | 67. | 70. | J. | 141. | 147. |
| 160 | 66. | 71. | 0. | 144. | 145. |
| 200 | 67. | 72. | v. | 140. | 145. |
| 250 | 67. | 7C. | U • | 140. | 145. |
| 315 | 70. | 73. | 0. | 140. | 146. |
| 400 | 71. | 74. | 0. | 138. | 142. |
| 500 | 73. | 74. | 0. | 138. | 143. |
| 63 () | ? 5 . | 78. | 0. | 138. | 142. |
| 800 | 72. | 76. | 0. | 137. | 142. |
| 1000 | 73. | 76. | 0. | 131. | 140. |
| 1250 | 73. | 78. | u. | 130. | 141. |
| 1600 | 73. | 76. | J. | 130. | 140. |
| 2000 | 72. | 77. | v. | 131. | 139. |
| 2500 | 72. | 79. | 0. | 131. | 138. |
| 315 <i>i</i>) | 7ć. | ε1. | J. | 132. | 135. |
| 4000 | 76. | €2. | 0. | 130. | 135. |
| 5000 | 75. | S1. | ٥. | 125. | 132. |
| 6300 | 74. | £3 . | 0. | 123. | 128. |
| 3000 | 76. | E3 . | 0. | 121. | 124. |
| 10000 | 73. | 81. | U. | 117. | 120. |
| 12500 | 72. | 78. | U. | 114. | 117. |
| 16000 | 70. | 76. | o. | 111. | 114. |
| 20000 | 65. | 69. | 0. | 109. | 112. |
| OCTAVE FREQ | | | | | |
| 63 | 72. | 77. | 0. | 142. | 144. |
| 125 | 84. | 85. | (). | 154. | 155. |
| 250 | 72. | 77. | 0. | 145. | 150. |
| 500 | 78. | El. | 0. | 143. | 147. |
| 1000 | 77. | 82. | 0. | 139. | 146. |
| 2000 | 77. | 82. | 0. | 135. | 144. |
| 40 Ú 🔾 | 8U• | 86. | 0. | 135. | 139. |
| 8000 | 79. | ٤7. | 0. | 126. | 130. |
| 16000 | 75. | ٤٥. | 0. | 117. | 120. |

CONFIGURATION 19 DELAYED DILLTION POWER SETTING 25 READING NO. 413

| | | MICROPHENE | PCSITICN | | |
|------------------------------|-----|------------|------------|-------|-------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 73. | 73. | U. | 137. | 141. |
| 63 | 77. | 76. | 0. | 135. | 139. |
| 80 | 70. | 71. | 0. | 139. | 142. |
| 100 | 91. | 92. | 0. | 154. | 155. |
| 125 | 71. | 71. | J. | 143. | 149. |
| 160 | 71. | 72. | 0. | 145. | 146. |
| 200 | 73. | 74. | 0. | 143. | 147. |
| 250 | 71. | 71. | 0. | 143. | 147. |
| 315 | 74. | 75. | J. | 142. | 147. |
| 400 | 76. | 75. | v. | 141. | 144. |
| 500 | 79. | 76. | 0. | 140. | 144. |
| 630 | 78. | 79. | U. | 140 . | 144. |
| 300 | 78. | 78. | 0. | 140. | 144. |
| 1000 | 78. | 75. | 0. | 133. | 142. |
| 1250 | 76. | 75. | 0. | 1329 | 143. |
| 1500 | 78. | 78. | 0. | 132. | 142. |
| 2000 | 78. | 80. | 0. | 132. | 141. |
| 2500 | 78. | £1. | 3. | 133. | 140. |
| 3150 | 80. | 83. | o. | 134. | 137. |
| 4000 | 81. | £3. | J. | 132. | 137. |
| 50 0 0 | 79. | £3. | 9. | 120. | 134. |
| | 79. | 83. | á. | 125. | 130 . |
| 630 0 300 0 | 78. | 82. | ű. | 124. | 127. |
| | 79. | 84. | ű. | 119. | 123. |
| 10600 | 78. | 82. | ű. | 116. | 120. |
| 12500 | 77. | 79. | o. | 111. | 116. |
| 16000 | 72. | 73. | 0. | 109. | 112. |
| 20000 | 12. | 13. | V • | 2070 | |
| OCTAVE FREQ | | | | | |
| 63 | 79. | 79. | 0. | 142. | 146. |
| 125 | 91. | 52. | u. | 155. | 156. |
| 250 | 78. | 78. | J. | 147. | 152. |
| 500 | 83. | 62. | 0. | 145. | 149. |
| 1000 | 82. | 83. | O. | 141. | 148. |
| 2001) | 83. | 85. | J. | 137. | 146. |
| 4000 | ٤5. | 68. | 0. | 137. | 141. |
| 8000 | 83. | 88. | 0. | 128. | 132. |
| 16000 | 81. | 84. | U. | 118. | 122. |
| | | | | | |

CONFIGURATION 15 CELAYED DILUTION POWER SETTING 40 READING NJ. 414

問題がないかのかりまかり、これのであるい

| | | MICROPHO | NE POSITION | | |
|--------------|-----|-------------|-------------|------|------|
| 1/3 DCT FREQ | 1 | 2 | 3 | 4 | č. |
| 5 () | 68. | 70. | u. | 140. | 153. |
| 63 | 76. | 76. | 0. | 133. | 150. |
| 311 | 65. | 7G. | 0. | 140. | 154. |
| 100 | 92. | 54. | 0. | 157. | 166. |
| 125 | 76. | 72. | U • | 145. | 159. |
| 100 | 73. | 74. | J. | 145. | 156. |
| 200 | 74. | 75. | 0. | 144. | 157. |
| 250 | 75. | 75. | G • | 144. | 157. |
| 315 | 79. | EC. | U • | 143. | 158. |
| 400 | 79. | ٤٥. | 0. | 142. | 155. |
| 500 | 78. | 80. | 0. | 141. | 155. |
| 631) | 82. | 83 . | 0. | 142. | 155. |
| 300 | 81. | e1. | i) • | 141. | 154. |
| 1000 | 80. | 82. | (). | 135. | 153. |
| 1250 | 75. | 82. | U. | 133. | 153. |
| 1600 | 81. | £1. | 0. | 133. | 153. |
| 2000 | 81. | 82. | 0. | 134. | 153. |
| 2501 | 83. | ٤٤. | ·)• | 134. | 151. |
| 3150 | 82. | £5. | 0. | 135. | 148. |
| +000 | 83. | 87. | () • | 133. | 147. |
| 5000 | 82. | ٤7. | 0. | 127. | 145. |
| 6300 | 81. | .89 | J. | 126. | 142. |
| 3000 | 81. | £7. | J. | 125. | 138. |
| 10000 | 81. | ٤7. | 0. | 120. | 133. |
| 12500 | 81. | ٤7. | U. | 117. | 131. |
| 16000 | 78. | €2• |). | 112. | 127. |
| 20000 | 74. | 75. | 0. | 109. | 122. |
| GCTAVE FREQ | | | | | |
| 63 | 77. | 75. | 0. | 144. | 157. |
| 125 | 92. | 94. | 0. | 158. | 167. |
| 250 | 81. | £2. | 0. | 148. | 162. |
| 50.) | 85. | 86. | :). | 146. | 160. |
| 1000 | £5. | 86. | 0. | 142. | 158. |
| 20.00 | ٤7. | 68. | 0. | 138. | 157. |
| 40(-1) | 87. | 91. | 0. | 138. | 152. |
| 801.0 | 86. | 92. | 0. | 129. | 144. |
| 16000 | 83. | .33 | 0. | 119. | 133. |

CONFIGURATION 19 CELAYED DILUTION POWER SETTING 55 READING NO. 415

| | | MICROPHO | NE POSTITIO | N | |
|--------------|--------------|-------------|-------------|-------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 68. | 69. | 0. | 141. | 143. |
| 63 | 76. | 77. | 0. | 140. | 144. |
| 30 | 70. | 70. | 0. | 142. | 146. |
| 100 | 95. | 56. | 0. | 1.57. | 159. |
| 125 | 76. | 73. | u. | 145. | 151. |
| 160 | 74. | 74. | 0. | 145. | 149. |
| 200 | 76. | 77. | 0. | 147. | 149. |
| 250 | 77. | 76. | 0. | 144. | 149. |
| 315 | 79. | 80. | 0. | 142. | 149. |
| 400 | 79. | eG . | 0. | 142. | 147. |
| 500 | 8 Ú • | 81. | ů. | 142. | 146. |
| 630 | 81. | 82. | 0. | 143. | 146. |
| 80.0 | 81. | 82. | 0. | 142. | 146. |
| 1000 | 81. | 82. | 0. | 136. | 144. |
| 1250 | 80. | 83. | 0. | 134. | 145. |
| 1600 | 82. | 83. | U. | 134. | 145. |
| 2000 | 84. | E5. | 0. | 134. | 144. |
| 2500 | 88. | E5. | v. | 134. | 143. |
| 3150 | 84. | ٤7. | v. | 135. | 140. |
| 4000 | E5 . | 89. | 0. | 134. | 139. |
| 5000 | 84. | 85. | 0. | 128. | 137. |
| 6300 | 83. | 89. | 0. | 128. | 134. |
| 8000 | 84. | ٤7. | ٥. | 125. | 130. |
| 10000 | 82. | 86. | 0. | 120. | 126. |
| 12500 | 83. | ٤7. | 0. | 117. | 125. |
| 15000 | 81. | 84. | 0. | 113. | 123. |
| 20000 | 77. | 77. | u. | 109. | 121. |
| OCTAVE FREQ | | | | | |
| 63 | 77. | 78. | 0. | 146. | 149. |
| 125 | 95. | 96. | 0. | 158. | 160. |
| 250 | 82. | e3 . | 0. | 150. | 154. |
| 500 | 85. | 86. | 0. | 147. | 151. |
| 1000 | 85. | ٤7. | 0. | 143. | 150. |
| 2000 | 90. | 89. | 0. | 139. | 149. |
| 4000 | 89. | 43. | 0. | 138. | 144. |
| 8000 | 88. | 52 • | U. | 130. | 136. |
| 16000 | E6. | ٤٩. | 0. | 119. | 128. |

CONFIGURATION 19
DELAYFD DILUTION
POWER SETTING 75
READING NO. 416

| | MICROPHONE | PCSITICA | | |
|----------------|-------------|-----------|------|------|
| 1/3 OCT FREQ 1 | 2 | 3 | 4 | 5 |
| 50 69. | 70. | v. | 145. | 147. |
| 63 17. | 78. | 0. | 143. | 145. |
| 80 69. | 65. | 0. | 144. | 147. |
| 100 92. | 92. | 0. | 161. | 162. |
| 125 78. | 75. | 0. | 147. | 151. |
| 160 74. | 75. | 0. | 145. | 150. |
| 200 76. | 77. | 0. | 149. | 150. |
| 250 77. | 76. | 0. | 144. | 149. |
| 315 79. | 75. | v. | 144. | 150. |
| 400 79. | 80. | 0. | 142. | 148. |
| 500 80. | 79. | 0. | 142. | 147. |
| 630 82. | 83. | 0. | 144. | 147. |
| 800 81. | €2. | 0. | 143. | 148. |
| 1000 81. | 83. | 0. | 138. | 145. |
| 1250 81. | £3. | 0. | 135. | 145. |
| 1600 82. | 84. | 0. | 135. | 145. |
| 2000 84. | 85. | 0. | 135. | 145. |
| 2500 89. | 66. | o. | 136. | 143. |
| 3150 83. | 84. | 0. | 136. | 141. |
| 4000 83. | 86. | 0. | 134. | 139. |
| 5000 82. | .83 | 0. | 128. | 137. |
| 6300 82. | ٤7. | 0. | 129. | 135. |
| 8000 82. | ٤7. | 0. | 125. | 131. |
| 10000 81. | 86. | 0. | 121. | 126. |
| 12500 79. | 65 . | 0. | 120. | 125. |
| 16000 77. | 82. | 0. | 119. | 123. |
| 20000 73. | 75. | 0. | 118. | 121. |
| OCTAVE FREQ | | | | |
| 63 78. | 75. | 0. | 149. | 151. |
| 125 92. | 92. | 0. | 161. | 163. |
| 250 82. | €2. | υ. | 151. | 154. |
| 500 85. | 86. | 0. | 148. | 152. |
| 1000 86. | ٤7. | 0. | 145. | 151. |
| 2000 91. | 90. | 0. | 140. | 149. |
| 4000 67. | 91. | 0. | 139. | 144. |
| 8000 86. | 51. | 0. | 131. | 137. |
| 16000 82. | 87. | 0. | 124. | 128. |

CONFIGURATION 19
CELAYED DILUTION
PUWER SETTING 100
READING ND. 417

| | | MICROPHENE | PESITION | | |
|--------------|-------------|--------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 72. | 76. | o. | 148. | 149. |
| 63 | 78. | 85. | 0. | 145. | 146. |
| 80 | 68. | 72. | 0. | 146. | 149. |
| 100 | 91. | 93. | 0. | 163. | 168. |
| 125 | 78. | 77. | 0. | 149. | 152. |
| 16) | 75. | 78. | 0. | 145. | 151. |
| 200 | 77. | ٤٥. | 0. | 149. | 151. |
| 250 | 77. | 78. | 0. | 144. | 149. |
| 315 | 79. | 80. | v. | 144. | 150. |
| 400 | 80. | ٤1. | 0. | 143. | 149. |
| 5(1) | 79. | 8 C • | J. | 144. | 148. |
| 630 | 82. | 83. | 0. | 145. | 149. |
| 300 | 84. | E4 . | 0. | 144. | 148. |
| 1000 | 83. | £4. | υ. | 139. | 147. |
| 1250 | 82. | E5 . | 0. | 136. | 147. |
| 1000 | 84. | ٤5. | 0. | 135. | 147. |
| 2000 | 84. | ٤6. | 0. | 136. | 146. |
| 2500 | ٤7. | ٤7. | U. | 136. | 145. |
| 3150 | 85. | ٤7. | 0. | 136. | 143. |
| 4000 | 86. | .93 | 0. | 135. | 141. |
| 5000 | 86. | 89. | 0. | 129. | 139. |
| 6300 | 84. | 50. | v . | 130. | 138. |
| 8000 | €3• | 89. | Ú. | 125. | 133. |
| 10000 | 83. | .89 | 0. | 121. | 129. |
| 12500 | 81. | ٤7. | 0. | 121. | 127. |
| 16000 | 78. | €3. | 0. | 119. | 124. |
| 20000 | 74. | 77. | 0. | 118. | 121. |
| | | | | | |
| OCTAVE FREQ | | | | | |
| 6 3 | 79. | E£. | 0. | 151. | 153. |
| 125 | 91. | 93. | 0. | 163. | 168. |
| 250 | E3 . | 84. | 0. | 151. | 155. |
| 50.0 | €€. | e 6 • | 0. | 149. | 153. |
| 1000 | 88. | 89. | 0. | 146. | 152. |
| 2000 | 90. | 91. | 0. | 140. | 151. |
| 4000 | 90. | 93. | 0. | 139. | 146. |
| 8000 | 88. | 54. | 0. | 132. | 140. |
| 16000 | 63. | 89. | 0. | 124. | 129. |

CONFIGURATION 20 DELAYED ANNULAR DILUTION POWER SETTING 10 READING NJ. 455

| | | MICRGPHO | NE POSITIO | ٨ | |
|--------------|-----|----------|------------|-------|------|
| 1/3 UCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 5·) | t2. | €3. | U. | 134. | 140. |
| 63 | 66. | 66. | 41. | 133. | 139. |
| 80 | 63. | 67. | o. | 138. | 142. |
| 160 | 83. | 94. | ÷). | 157. | 158. |
| 125 | 67. | €8. | 0. | 140. | 147. |
| 160 | 69. | 70. | U. | 143. | 145. |
| 200 | 72. | 72. | u. | 139. | 144. |
| 250 | 7ú. | 70. | J. | 139. | 145. |
| 315 | 72. | 73. | 0. | 140. | 145. |
| 400 | 75. | 75. | (). | 137. | 143. |
| 500 | 75. | 77. | 0. | 137. | 143. |
| 630 | 78. | 77. | J. | 137. | 142. |
| 300 | 76. | 77. | 0. | 130. | 143. |
| 1000 | 75. | 76. | J. | 131. | 141. |
| 1250 | 75. | 76. | 1). | 130. | 142. |
| 1500 | 75. | 74. | 0. | 131. | 141. |
| 2000 | 74. | 74. | v. | 131. | 141. |
| 2500 | 74. | 75. | o. | 132. | 138. |
| 3150 | 77. | 7¢. | U. | 132. | 138. |
| 4000 | 77. | 17. | U. | 130. | 137. |
| 5.16, 3 | 73. | 74. | 0. | .25. | ĺ35. |
| 6300 | 70. | 71. | U. | 123. | 130. |
| 8000 | 67. | 7C. | o. | 121. | 126. |
| 10000 | 62. | £5. | 0. | 117. | 122. |
| 12500 | 58. | EU. | 0. | 113. | 118. |
| 16000 | 53. | 55. | •)• | 110. | 114. |
| 2000) | 51. | 51. | 0. | 108. | 111. |
| | | | | | |
| OCTAVE FREG | | | | • • • | |
| 63 | 69. | 7C. | 0. | 140. | 145. |
| 125 | 83. | 94. | o. | 157. | 159. |
| 250 | 76. | 77. | 0. | 144. | 149. |
| 500 | 81. | 81. | 0. | 142. | 147. |
| 1000 | 80. | £1. | J. | 138. | 147. |
| 2000 | 79. | 79. | 0. | 136. | 145. |
| 4000 | 81. | 81. | 0. | 135. | 142. |
| 8000 | 72. | 74. | 0. | 126. | 132. |
| 16000 | 60. | €2• | 0. | 116. | 120. |

CONFIGURATION 20 DELAYED ANNULAR DILUTION POWER SETTING 40 READING NO. 457

| | | MICROPHO | NE POSITIO | ٨ | |
|--------------|-----|------------|------------|------|------|
| 1/3 JCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 64. | 65. | 66. | 140. | 143. |
| 63 | 68. | ée. | 70. | 137. | 143. |
| 80 | 66. | £ E . | 70. | 141. | 146. |
| 100 | 86. | 95. | 58. | 159. | 159. |
| 125 | 70. | 70. | 72. | 144. | 150. |
| 160 | 70. | 71. | 12. | 145. | 148. |
| 200 | 73. | 73. | 72. | 144. | 148. |
| 250 | 73. | 72. | 74. | 141. | 147. |
| 315 | 74. | 73. | 75. | 142. | 147. |
| 41)1) | 76. | 76. | 76. | 141. | 145. |
| 500 | 76. | 75. | 77. | 139. | 146. |
| 630 | 79. | 79. | 79. | 141. | 146. |
| 800 | 80. | 75. | 80. | 140. | 145. |
| 1000 | 78. | eu. | 79. | 135. | 144. |
| 1250 | 77. | 78. | 78. | 134. | 145. |
| 1600 | 79. | 75. | 79. | 134. | 144. |
| 2000 | 77. | 77. | 79. | 134. | 145. |
| 2500 | 77. | 78. | 79. | 135. | 143. |
| 3150 | 80. | 79. | 80. | 135. | 140. |
| 4000 | 80. | £0. | 81. | 134. | 140. |
| 5000 | 78. | 75. | 79. | 128. | 139. |
| 6300 | 75. | 76. | 75. | 127. | 135. |
| 3000 | 72. | 74. | 75. | 125. | 130. |
| 10000 | 68. | 70. | 69. | 120. | 125. |
| 12500 | 63. | 65. | 65. | 116. | 121. |
| 16000 | 58. | 59. | 60. | 112. | 118. |
| 20000 | 53. | 53. | 55. | 109. | 113. |
| OCTAVE FREQ | | | | | |
| 63 | 71. | 72. | 74. | 144. | 149. |
| 125 | ėė. | 95. | 58. | 159. | 160. |
| 250 | 78. | 77. | 79. | 147. | 152. |
| 500 | 62. | 83. | 62. | 145. | 150. |
| 1000 | 83. | 64. | 84. | 142. | 149. |
| 2000 | 83. | £3. | 84. | 139. | 149. |
| 4000 | 64. | 84. | £5. | 138. | 144. |
| 8000 | 77. | 75. | 79. | 130. | 137. |
| 16000 | 65. | éé. | 67. | 118. | 123. |
| · - · | | | ~ · • | | |

CONFIGURATION 2C DELAYED ANNULAR DILUTION POWER SETTING 55 READING NJ. 458

Barton and comment has been been been been an annual to a commentation of the second

| | | MICKOPHO | NE POSITION | | |
|--------------|--------------|-------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 5 U | 64. | 65 . | 67. | 140. | 147. |
| 63 | 68. | 71. | 74. | 141. | 144. |
| 80 | 68. | 68. | 11. | 143. | 148. |
| 100 | 88. | 94. | 97. | 162. | 162. |
| 125 | 76. | 74. | 78. | 146. | 151. |
| 160 | 75. | 74. | 75. | 144. | 150. |
| 200 | 76. | 77. | 15. | 145. | 150. |
| 250 | 76. | 77. | 78. | 142. | 148. |
| 315 | 80. | 75. | 79. | 142. | 149. |
| 430 | 75. | 79. | 79. | 141. | 147. |
| 500 | 79. | 8ú. | 80. | 140. | 147. |
| 630 | 83. | 82. | 82. | 142. | 147. |
| 800 | 82. | £2. | 83. | 141. | 147. |
| 1000 | 81. | 81. | 81. | 137. | 146. |
| 1250 | 79. | 80. | 80. | 135. | 146. |
| 1600 | 80. | 81. | 81. | 134. | 146. |
| 2000 | 80. | 80. | 81. | 135. | 146. |
| 2500 | 86. | 83. | 85. | 136. | 145. |
| 3150 | 81. | EC. | 80. | 136. | 141. |
| 4000 | 81. | £1. | 81. | 135. | 141. |
| 5000 | 8 0 • | eu. | 8 O • | .29. | 140. |
| 6300 | 77. | 78. | 77. | 129. | 138. |
| 8000 | 74. | 76. | 76. | 125. | 132. |
| 10000 | 69. | 72. | 76. | 121. | 127. |
| 12500 | 65. | 67. | 66. | 117. | 125. |
| 16000 | 60. | £3. | 61. | 112. | 123. |
| 20000 | 55. | 55. | 56. | 108. | 121. |
| | | | | | |
| OCTAVE FREQ | | 7.0 | | | |
| 63 | 72. | 73. | 76. | 146. | 151. |
| 125 | 88. | 94. | 97. | 162. | 163. |
| 250 | £3. | E3 . | 82. | 148. | 154. |
| 500 | . 38 | 85. | 85. | 146. | 152. |
| 1000 | 86. | 86. | 66. | 143. | 151. |
| 2000 | 85. | 86. | 88. | 140. | 150. |
| 4000 | £5. | 85. | £5. | 139. | 145. |
| 8000 | 79. | 81. | 80. | 131. | 139. |
| 16000 | 67. | 69. | 68. | 119. | 128. |

CONFIGURATION 20
DELAYED ANNULAR DILUTION
POWER SETTING 75
READING NO. 459

| | | MICROPHONE | PCSITICA | | |
|--------------|--------------|------------|----------|------|------|
| 1/3 JCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 66. | 67. | 65. | 144. | 149. |
| 63 | 71. | 71. | 75. | 143. | 147. |
| 80 | €8• | 68. | 69. | 144. | 149. |
| 100 | 85. | 53. | 55. | 162. | 165. |
| 125 | 78. | 77. | 80. | 147. | 152. |
| 160 | 75. | 76. | 76. | 145. | 150. |
| 200 | 76. | 76. | 75. | 147. | 150. |
| 250 | 76. | 76. | 78. | 142. | 149. |
| 315 | 81. | 75. | 79. | 143. | 150. |
| 400 | 8 u • | 79. | 30. | 142. | 148. |
| 5()() | 75. | 75. | 79. | 141. | 148. |
| 630 | 83. | £2. | 82. | 143. | 148. |
| 800 | 8 ž • | 82. | 82. | 142. | 147. |
| 1000 | 81. | 82. | 81. | 138. | 147. |
| 1250 | 79. | 81. | 80. | 135. | 147. |
| 1600 | 81. | 81. | 82. | 135. | 147. |
| 2000 | 81. | e1. | 82. | 135. | 146. |
| 2500 | £3. | 84. | 83. | 130. | 145. |
| 3150 | 81. | 81. | 81. | 136. | 142. |
| 40(1) | 82. | 82. | 82. | 135. | 141. |
| 5000 | e G. | £2. | 81. | 129. | 140. |
| 6300 | 83. | eu. | 81. | 130. | 138. |
| 8000 | 78. | 77. | 78. | 125. | 132. |
| 10000 | 73. | 73. | 72. | 121. | 128. |
| 12500 | 69. | 69. | 68. | 120. | 125. |
| 16000 | 64. | 64. | 63. | 118. | 123. |
| 20000 | 57. | 57. | 58. | 118. | 121. |
| OCTAVE FREQ | | | | | |
| 63 | 74. | 74. | 77. | 148. | 153. |
| 125 | 86. | 93. | 95. | 162. | 165. |
| 250 | 83. | 82. | 82. | 149. | 154. |
| 500 | 86. | 85. | 85. | 147. | 153. |
| 1000 | 86. | 86. | 86. | 144. | 152. |
| 2000 | 87. | ٤7. | 87. | 140. | 151. |
| 4000 | 86. | Eć. | 86. | 139. | 146. |
| 3000 | 85. | £2. | 83. | 132. | 139. |
| 16000 | 7u. | 7ű. | 70. | 124. | 128. |

CCNFIGURATION 21 EX-CELL-D AIR BLAST POWER SETTING 10 READING NU. 464

| | | MICREPHO | NE POSITIO | ٨ | |
|--------------|------------|------------|-------------|--------------|--------------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 61. | 61. | 63. | 135. | 139. |
| 63 | 66. | 65. | 67. | 134. | 136. |
| 80 | £8. | 66. | 68. | 139. | 140. |
| 100 | 93. | 52. | 95. | 156. | 158. |
| 125 | 68. | 65. | 72. | 139. | 142. |
| 160 | 12. | 71. | 75. | 143. | 145. |
| 200 | 72. | 74. | 73. | 141. | 142. |
| 250 | 70. | 72. | 72. | 141. | 144. |
| 315 | 77. | 75. | 74. | 140. | 142. |
| 400 | 77. | 76. | 76. | 135. | 138. |
| 500 | 77. | 78. | 78. | 138. | 140. |
| 630 | 78. | 78. | 78. | 138. | 141. |
| 800 | 78. | 78. | 78. | 136. | 139. |
| 1000 | 82. | 81. | 81. | 132. | 136. |
| 1250 | 81. | EC. | 80. | 132. | 140. |
| 1600 | 77. | 76. | 75. | 131. | 135. |
| 2000 | 74. | 75. | 74. | 131. | 134. |
| 2500 | 74. | 73. | 74. | 132. | 134. |
| 3150 | 76. | 75. | 73. | 133. | 136. |
| 4000 | 77. | 77. | 74. | 130. | 134. |
| 5000 | 75. | 73. | 71. | 126. | 130. |
| 6300 | 72. | 7¢. | 68. | 123. | 127. |
| 8000 | 69. | 65. | 66. | 122. | 126. |
| 10000 | 64. | 65. | 61. | 117. | 121. |
| 12500 | 60. | EU. | 59. | 113. | 117. |
| 16000 | 55. | 55. | 55. | 109. | 113. |
| 20000 | 51. | 5u. | 51. | 107. | 111. |
| OCTAVE EREO | | | | | |
| OCTAVE FREQ | 7.1 | 4.0 | 71 | 141 | 142 |
| 63 125 | 71. 93. | 69. 92. | 71. 55. | 141. | 143. |
| 250 | | 79. | 78 . | 156. | 158. |
| 500 | 79. 82. | 82. | 82. | 145. | 148. 145. |
| | | | | 142. | |
| 1000 2000 | 85. 80. | 65. 80. | 65. 79. | 139. 136. | 143. 139. |
| 4000 | 81. | 80. | 78. | 135. | 139. |
| 8000 | 74. | 73. | 71. | 126. | 130. |
| | | | | | |
| 16000 | 62. | €2. | 61. | 115. | 119. |

CONFIGURATION 21 EX-CELL-O AIR BLAST POWER SETTING 25 READING NO. 465

| 1/3 JCT FREQ 50 62. 67. 63. 139. 141. 63 69. 65. 68. 136. 138. 80 67. 67. 67. 141. 143. 100 93. 52. 54. 160. 158. 125 69. 70. 72. 143. 146. 160 70. 70. 70. 72. 144. 144. 200 71. 72. 72. 143. 147. 315 74. 72. 75. 142. 146. 400 77. 74. 75. 138. 142. 500 77. 74. 75. 138. 142. 500 77. 74. 75. 138. 142. 800 80. 139. 142. 800 80. 78. 80. 80. 139. 142. 800 80. 78. 80. 138. 142. 1000 84. 63. 85. 133. 148. 1256 90. 66. 89. 134. 156. 1600 80. 77. 78. 80. 133. 140. 2000 81. 82. 87. 133. 139. 2500 77. 78. 80. 134. 156. 1600 80. 77. 78. 80. 134. 156. 1600 80. 77. 78. 80. 134. 156. 1600 80. 75. 80. 134. 142. 1000 60. 78. 79. 134. 135. 4000 60. 78. 79. 134. 135. 5000 77. 78. 70. 70. 123. 124. 10000 60. 78. 78. 132. 135. 5000 72. 70. 70. 123. 124. 10000 67. 65. 65. 119. 120. 12500 63. 61. 62. 115. 116. 16000 59. 57. 58. 110. 114. 20000 84. 84. 85. 88. 138. 147. 151. 500 84. 64. 85. 144. 147. 151. 500 84. 84. 85. 88. 138. 145. | | | MICROPHO | NE POSITIO | N | |
|--|--------------|-----|----------|------------|------|------|
| 50 62. 67. 63. 139. 141. 63 69. 65. 68. 136. 138. 80 67. 67. 67. 141. 143. 100 93. 52. 54. 160. 158. 125 69. 70. 72. 143. 146. 160 70. 70. 72. 144. 144. 200 71. 72. 72. 143. 147. 315 74. 72. 75. 142. 146. 400 77. 74. 75. 138. 142. 500 79. 80. 80. 139. 142. 630 81. 81. 82. 140. 142. 800 80. 78. 80. 138. 142. 1000 84. 83. 85. 133. 148. 125C 90. 86. 89. 134. 156. 1600 80. 77. 78. 80. 133. 149. 2000 81. 82. 87. 133. 139. 2500 77. 78. 80. 133. 149. 2000 81. 82. 87. 133. 139. 2500 77. 78. 80. 134. 156. 1600 80. 75. 80. 133. 149. 2000 81. 82. 87. 133. 139. 2500 77. 78. 80. 134. 156. 1600 80. 75. 80. 134. 156. 1600 78. 76. 79. 134. 135. 5000 77. 78. 80. 134. 142. 3150 78. 76. 79. 134. 135. 5000 77. 78. 80. 134. 142. 3150 78. 76. 79. 134. 135. 5000 77. 78. 80. 134. 142. 3150 78. 76. 79. 134. 135. 5000 75. 72. 71. 125. 127. 134. 6300 75. 72. 73. 71. 144. 146. | 1/3 JCT FREQ | 1 | | | | 5 |
| 63 69. 69. 69. 68. 136. 138. 80 67. 67. 67. 67. 141. 143. 100 92. 52. 54. 160. 158. 125 69. 70. 72. 143. 146. 160 70. 70. 72. 143. 146. 200 71. 72. 71. 142. 145. 2550 71. 72. 72. 143. 147. 315 74. 72. 75. 142. 146. 400 77. 74. 75. 138. 142. 500 75. 80. 80. 139. 142. 630 81. 81. 82. 140. 142. 800 80. 78. 80. 139. 142. 1000 84. 83. 85. 133. 148. 1256 90. 86. 89. 134. 156. 1600 80. 77. 78. 80. 133. 140. 2000 81. 82. 87. 133. 139. 2500 77. 78. 80. 134. 156. 1600 80. 79. 80. 134. 156. 1600 80. 79. 80. 133. 140. 2000 81. 82. 87. 133. 139. 2500 77. 78. 80. 134. 156. 1600 80. 79. 80. 134. 156. 1600 80. 79. 80. 134. 156. 1600 80. 79. 80. 133. 140. 2000 81. 82. 87. 133. 139. 2500 77. 78. 80. 134. 155. 4000 60. 78. 78. 78. 132. 135. 5000 75. 72. 71. 125. 127. 8000 72. 70. 70. 123. 124. 10000 67. 65. 65. 119. 120. 12500 63. 61. 62. 115. 116. 16000 59. 57. 58. 110. 114. 20CTAVE FREQ 63 72. 73. 71. 144. 146. 125 92. 52. 54. 160. 158. 250 77. 77. 78. 144. 147. 1000 51. 66. 91. 140. 157. 2000 84. 64. 85. 88. 136. 145. 4000 84. 85. 88. 138. 145. | | | | | | |
| 80 67. 67. 67. 67. 141. 143. 100 92. 52. 54. 160. 158. 125 69. 70. 72. 143. 146. 160 70. 70. 72. 144. 144. 200 71. 72. 72. 143. 145. 250 71. 72. 72. 143. 147. 315 74. 72. 75. 142. 146. 400 77. 74. 75. 138. 142. 500 76. 80. 80. 139. 142. 630 81. 81. 82. 140. 142. 800 80. 78. 80. 138. 142. 1000 84. 83. 85. 133. 148. 125C 90. 86. 89. 134. 156. 1600 80. 77. 78. 80. 133. 149. 2500 77. 78. 80. 133. 149. 2500 77. 78. 80. 133. 156. 1600 80. 79. 80. 133. 149. 2500 77. 78. 80. 133. 149. 2500 77. 78. 80. 133. 140. 3150 78. 76. 79. 134. 135. 4000 80. 78. 78. 132. 135. 50.00 78. 76. 79. 134. 135. 4000 60. 78. 78. 132. 135. 50.00 78. 76. 79. 134. 135. 50.00 78. 76. 79. 134. 135. 50.00 78. 76. 79. 134. 135. 50.00 78. 76. 79. 134. 135. 50.00 59. 57. 58. 110. 114. 20000 59. 57. 58. 110. 114. 20000 59. 57. 58. 110. 114. 20000 59. 57. 58. 110. 114. 20000 59. 57. 58. 110. 114. 20000 51. 66. 91. 140. 157. 2000 84. 84. 84. 85. 183. 138. 145. | 63 | | | - | | |
| 100 92. 52. 54. 160. 158. 125 69. 70. 72. 143. 146. 160 70. 70. 72. 144. 144. 200 71. 72. 71. 142. 145. 250 71. 72. 72. 143. 147. 315 74. 72. 75. 142. 146. 400 77. 74. 75. 138. 142. 500 79. 80. 80. 139. 142. 630 81. 81. 82. 140. 142. 800 80. 78. 80. 138. 142. 1000 84. 83. 85. 133. 148. 125C 90. 86. 89. 134. 156. 1600 80. 75. 80. 133. 140. 2000 81. 82. 87. 133. 139. 2500 77. 78. 80. 134. 156. 1600 80. 75. 80. 133. 140. 2000 81. 82. 87. 133. 139. 2500 77. 78. 80. 134. 155. 4000 80. 76. 76. 79. 134. 135. 4000 80. 76. 76. 79. 134. 135. 4000 60. 78. 78. 132. 135. 500 78. 76. 79. 134. 135. 4000 60. 78. 78. 132. 135. 5000 75. 72. 71. 125. 127. 8000 72. 70. 70. 123. 124. 10000 67. 65. 65. 119. 120. 12500 63. 61. 62. 115. 116. 16000 59. 57. 58. 110. 114. 20000 53. 51. 54. 108. 111. | | | | | | |
| 125 69. 70. 72. 143. 146. 160 70. 70. 72. 144. 144. 200 71. 72. 71. 142. 145. 250 71. 72. 72. 143. 147. 315 74. 72. 75. 142. 146. 400 77. 74. 75. 138. 142. 500 75. 80. 80. 139. 142. 800 81. 81. 82. 140. 142. 800 80. 78. 80. 138. 142. 1000 84. 83. 85. 133. 148. 125C 90. 86. 89. 134. 156. 1600 80. 77. 80. 133. 140. 2000 81. 82. 87. 133. 139. 2500 77. 78. 80. 134. 156. 1600 80. 77. 78. 80. 134. 156. 1600 80. 77. 78. 80. 134. 142. 3150 78. 76. 79. 134. 135. 4000 80. 78. 76. 79. 134. 135. 500 77. 78. 76. 79. 134. 135. 500 78. 76. 77. 71. 125. 127. 134. 6300 75. 72. 71. 125. 127. 8000 73. 70. 70. 123. 124. 10000 67. 65. 65. 119. 120. 12500 63. 61. 62. 115. 116. 16000 59. 57. 58. 110. 114. 20000 84. 84. 85. 188. 138. 147. 1500 84. 84. 85. 144. 147. 1000 91. 66. 91. 140. 157. 2000 84. 85. 88. 138. 145. | 100 | 93. | 52. | 54. | | |
| 200 71. 72. 71. 142. 145. 250 71. 72. 72. 143. 147. 315 74. 72. 75. 142. 146. 400 77. 74. 75. 138. 142. 500 75. 80. 80. 139. 142. 800 80. 78. 80. 80. 139. 142. 146. 125. 90. 86. 89. 134. 156. 1600 80. 77. 78. 80. 80. 138. 142. 1250 90. 86. 89. 134. 156. 1600 80. 77. 80. 80. 133. 140. 2000 81. 82. 87. 133. 139. 2500 77. 78. 80. 133. 139. 2500 77. 78. 80. 134. 142. 135. 4000 80. 78. 76. 79. 134. 135. 4000 80. 78. 76. 79. 134. 135. 135. 500 78. 76. 75. 127. 134. 6300 75. 72. 71. 125. 127. 134. 6300 75. 72. 71. 125. 127. 134. 1000 67. 65. 65. 119. 120. 12500 63. 61. 62. 115. 116. 16000 59. 57. 58. 110. 114. 20000 59. 57. 58. 110. 114. 20000 59. 57. 58. 110. 114. 20000 59. 57. 58. 110. 114. 20000 59. 57. 58. 110. 114. 20000 59. 57. 77. 78. 144. 145. 151. 500 84. 84. 84. 85. 144. 147. 151. 500 84. 84. 84. 85. 144. 147. 151. 2000 84. 85. 88. 138. 145. 2000 84. 85. 80. 8000 84. 85. 8000 84. 85. 8000 84. 85. 8000 84. 85. 8000 84. 85. 8000 84. 85. 8000 84. 85. 8 | 125 | 69. | 70. | | | |
| 250 71. 72. 72. 143. 147. 315 74. 72. 75. 142. 146. 400 77. 74. 75. 138. 142. 500 79. 80. 80. 139. 142. 630 81. 81. 82. 140. 142. 1000 84. 83. 85. 133. 148. 125C 90. 86. 89. 134. 156. 1600 80. 77. 78. 80. 133. 140. 2000 81. 82. 87. 133. 139. 2500 77. 78. 80. 134. 155. 4000 80. 77. 78. 80. 134. 155. 4000 80. 77. 78. 80. 134. 142. 3150 78. 76. 79. 134. 135. 4000 60. 78. 76. 79. 134. 135. 4000 75. 72. 71. 125. 127. 8000 72. 70. 70. 123. 124. 10000 67. 65. 65. 119. 120. 12500 63. 61. 62. 115. 116. 16000 59. 57. 58. 110. 114. 20000 53. 51. 54. 108. 111. | 160 | 70. | 70. | 72. | 144. | 144. |
| 315 74. 72. 75. 142. 146. 400 77. 74. 75. 138. 142. 500 79. 80. 80. 139. 142. 630 81. 81. 82. 140. 142. 800 80. 78. 80. 138. 142. 1000 84. 83. 85. 133. 148. 125C 90. 86. 89. 134. 156. 1600 80. 77. 80. 133. 140. 2000 81. 82. 87. 133. 139. 2500 77. 78. 80. 134. 142. 3150 78. 76. 79. 134. 135. 4000 80. 78. 78. 132. 135. 5000 78. 76. 77. 78. 132. 135. 5000 78. 76. 77. 78. 132. 135. 5000 78. 76. 77. 78. 127. 134. 6300 75. 75. 72. 71. 125. 127. 8000 72. 70. 70. 123. 124. 10000 67. 65. 65. 119. 120. 12500 63. 61. 62. 115. 116. 16000 59. 57. 58. 110. 114. 20. 12500 63. 51. 54. 108. 111. | | 71. | 72. | 71. | 142. | 145. |
| 400 77. 74. 75. 138. 142. 500 79. 80. 80. 139. 142. 630 81. 81. 82. 140. 142. 800 80. 78. 80. 138. 142. 1000 84. 63. 85. 133. 148. 1250 90. 66. 89. 134. 156. 1600 80. 79. 80. 133. 140. 2000 81. 82. 87. 133. 139. 2500 77. 78. 80. 134. 135. 4000 60. 78. 78. 132. 135. 5000 78. 76. 79. 134. 135. 5000 78. 76. 79. 134. 135. 5000 78. 76. 75. 127. 134. 6300 75. 72. 71. 125. 127. 8000 72. 70. 70. 123. 124. 10000 67. 65. 65. 119. 120. 12500 63. 61. 62. 115. 116. 16000 59. 57. 58. 110. 114. 20000 59. 57. 58. 110. 114. 20000 51. 66. 91. 140. 157. 2000 84. 84. 84. 85. 145. 146. 157. 2000 84. 82. 82. 137. 139. 8000 78. 75. 74. 128. 129. | 250 | 71. | 72. | 72. | 143. | 147. |
| 500 75. 80. 80. 139. 142. 630 81. 81. 82. 140. 142. 800 80. 78. 80. 138. 142. 1000 84. 83. 85. 133. 148. 125C 90. 66. 89. 134. 156. 1600 80. 75. 80. 133. 140. 2000 81. 82. 87. 133. 139. 2500 77. 78. 80. 134. 142. 3150 78. 76. 79. 134. 135. 4000 80. 78. 78. 132. 135. 500 78. 76. 79. 134. 135. 500 78. 76. 79. 134. 135. 500 78. 76. 75. 127. 134. 6300 73. 70. 70. 123. 124. 1000 59. 57. 58. 110. 114. | 315 | 74. | | 75. | | 146. |
| 630 81. 81. 82. 140. 142. 800 80. 78. 80. 138. 142. 1000 84. 83. 85. 133. 148. 125C 90. 86. 89. 134. 156. 1600 80. 75. 80. 133. 140. 2000 81. 82. 87. 133. 139. 2500 77. 78. 80. 134. 142. 3150 78. 76. 79. 134. 135. 4000 80. 78. 76. 79. 134. 135. 5000 78. 76. 75. 127. 134. 6300 75. 72. 71. 125. 127. 8000 72. 70. 70. 123. 124. 1000 67. 65. 65. 119. 120. 12500 63. 61. 62. 115. 116. 16000 59. 57. 58. 110. 114. 20000 59. 57. 58. 110. 114. 20000 59. 57. 58. 110. 114. 20000 51. 86. 88. 138. 147. 1000 51. 86. 91. 147. 151. 500 84. 84. 85. 144. 147. 1000 51. 86. 91. 140. 157. 2000 84. 85. 88. 138. 145. | | | | 75. | 138. | 142. |
| 800 80. 78. 80. 138. 142. 1000 84. 83. 85. 133. 148. 125C 90. 86. 89. 134. 156. 1600 80. 75. 80. 133. 140. 2000 81. 82. 87. 133. 139. 2500 77. 78. 80. 134. 142. 3150 78. 76. 79. 134. 135. 4000 80. 78. 78. 132. 135. 500 78. 76. 79. 134. 135. 500 78. 76. 75. 127. 134. 6300 75. 72. 71. 125. 127. 8000 72. 70. 70. 123. 124. 1000 67. 65. 65. 119. 120. 12500 63. 61. 62. 115. 116. 16000 59. 57. 58. 110. 114. 20000 53. 51. 54. 108. 111. OCTAVE FREQ 63 72. 73. 71. 144. 146. 125 92. 52. 54. 160. 158. 250 77. 77. 78. 147. 151. 500 84. 84. 85. 88. 138. 145. 2000 84. 85. 88. 138. 145. 2000 84. 85. 88. 138. 145. | | | | | 139. | 142. |
| 1000 | | | | | | |
| 125C 90. | | | | | | 142. |
| 1600 80. 75. 80. 133. 140. 2000 81. 82. 87. 133. 139. 2500 77. 78. 80. 134. 142. 3150 78. 76. 79. 134. 135. 4000 80. 78. 78. 132. 135. 500 78. 76. 75. 127. 134. 6300 75. 72. 71. 125. 127. 8000 73. 70. 70. 123. 124. 10000 67. 65. 65. 119. 120. 12500 63. 61. 62. 115. 116. 16000 59. 57. 58. 110. 114. 20000 53. 51. 54. 108. 111. OCTAVE FREQ 63 72. 73. 71. 144. 146. 125 93. 52. 54. 160. 158. 250 77. 77. 78. 147. 151. 500 84. 84. 85. 88. 138. 147. 1000 51. 66. 91. 140. 157. 2000 84. 85. 88. 138. 145. 4000 84. 85. 88. 138. 145. | | | | | 133. | 148. |
| 2000 81. 82. 87. 133. 139. 2500 77. 78. 80. 134. 142. 3150 78. 76. 79. 134. 135. 4000 60. 78. 78. 132. 135. 5000 75. 72. 71. 125. 127. 8000 72. 70. 70. 123. 124. 1000 67. 65. 65. 119. 120. 12500 63. 61. 62. 115. 116. 16000 59. 57. 58. 110. 114. 20000 53. 51. 54. 108. 111. OCTAVE FREQ 63 72. 73. 71. 144. 146. 125 92. 52. 54. 160. 158. 250 77. 77. 78. 147. 151. 500 84. 84. 85. 147. 151. 500 84. 84. 85. 144. 147. 1000 51. 66. 91. 140. 157. 2000 84. 85. 88. 138. 145. 4000 84. 85. 88. 138. 145. | | | | | | |
| 2500 77. 78. 80. 134. 142. 3150 78. 76. 79. 134. 135. 4000 60. 78. 78. 132. 135. 5000 78. 76. 75. 127. 134. 6300 75. 72. 71. 125. 127. 8000 73. 70. 70. 123. 124. 10000 67. 65. 65. 119. 120. 12500 63. 61. 62. 115. 116. 16000 59. 57. 58. 110. 114. 20000 53. 51. 54. 108. 111. OCTAVE FREQ 63 72. 73. 71. 144. 146. 125 92. 52. 54. 160. 158. 250 77. 77. 77. 78. 147. 151. 500 84. 84. 85. 144. 147. 1000 51. 66. 91. 140. 157. 2000 84. 85. 88. 138. 145. 4000 84. 85. 88. 138. 145. 4000 84. 82. 82. 137. 139. 8000 78. 75. 74. 128. 129. | | | | | | |
| 3150 78. 76. 79. 134. 135. 4000 60. 78. 78. 132. 135. 5000 78. 76. 75. 127. 134. 6300 75. 72. 71. 125. 127. 8000 73. 70. 70. 123. 124. 10000 67. 65. 65. 119. 120. 12500 63. 61. 62. 115. 116. 16000 59. 57. 58. 110. 114. 20000 53. 51. 54. 108. 111. OCTAVE FREQ 63 72. 73. 71. 144. 146. 125 92. 52. 54. 160. 158. 250 77. 77. 78. 147. 151. 500 84. 84. 84. 85. 144. 147. 1000 51. 66. 91. 140. 157. 2000 84. 85. 88. 138. 145. 4000 84. 82. 82. 137. 139. 8000 78. 75. 74. 128. 129. | | | | | | |
| 4000 | | | | | | |
| 5000 78. 76. 75. 127. 134. 6300 75. 72. 71. 125. 127. 8000 73. 70. 70. 123. 124. 10000 67. 65. 65. 119. 120. 12500 63. 61. 62. 115. 116. 16000 59. 57. 58. 110. 114. 20000 53. 51. 54. 108. 111. OCTAVE FREQ 63 72. 73. 71. 144. 146. 125 93. 52. 54. 160. 158. 250 77. 77. 78. 147. 151. 500 84. 84. 85. 147. 151. 500 84. 84. 85. 144. 147. 1000 51. 68. 91. 140. 157. 2000 84. 85. 88. 138. 145. 4000 84. 85. 82. 82. 137. 139. 8000 78. 75. 74. 128. 129. | | | | | | |
| 6300 75. 72. 71. 125. 127. 8000 73. 70. 70. 123. 124. 10000 67. 65. 65. 119. 120. 12500 63. 61. 62. 115. 116. 16000 59. 57. 58. 110. 114. 20000 53. 51. 54. 108. 111. OCTAVE FREQ 63 72. 73. 71. 144. 146. 125 92. 52. 54. 160. 158. 250 77. 77. 78. 147. 151. 500 84. 84. 85. 147. 151. 1000 51. 88. 91. 140. 157. 2000 84. 85. 88. 138. 145. 4000 84. 85. 88. 138. 145. 4000 84. 82. 82. 137. 139. 8000 78. 75. 74. 128. 129. | | | | | | |
| 8000 73. 70. 70. 123. 124. 10000 67. 65. 65. 119. 120. 12500 63. 61. 62. 115. 116. 16000 59. 57. 58. 110. 114. 20000 53. 51. 54. 108. 111. OCTAVE FREQ 63 72. 73. 71. 144. 146. 125 92. 52. 54. 160. 158. 250 77. 77. 78. 147. 151. 500 84. 64. 65. 144. 147. 1000 51. 66. 91. 140. 157. 2000 84. 85. 88. 138. 145. 4000 84. 85. 88. 138. 145. 4000 84. 82. 82. 137. 139. 8000 78. 75. 74. 128. 129. | | | | | | |
| 10000 67. 65. 65. 119. 120. 12500 63. 61. 62. 115. 116. 16000 59. 57. 58. 110. 114. 20000 53. 51. 54. 108. 111. OCTAVE FREQ 63 72. 73. 71. 144. 146. 125 93. 52. 54. 160. 158. 250 77. 77. 78. 147. 151. 500 84. 84. 85. 144. 147. 1000 51. 88. 91. 140. 157. 2000 84. 85. 88. 138. 145. 4000 84. 85. 88. 138. 145. 8000 78. 75. 74. 128. 129. | | | | | | |
| 12500 63. 61. 62. 115. 116. 16000 59. 57. 58. 110. 114. 20000 53. 51. 54. 108. 111. OCTAVE FREQ 63 72. 73. 71. 144. 146. 125 93. 52. 54. 160. 158. 250 77. 77. 78. 147. 151. 500 84. 84. 85. 144. 147. 1000 51. 68. 91. 140. 157. 2000 84. 85. 88. 138. 145. 4000 84. 85. 88. 138. 145. 8000 78. 75. 74. 128. 129. | | | | | | |
| 16000 59. 57. 58. 110. 114. 20000 53. 51. 54. 108. 111. OCTAVE FREQ 63 72. 73. 71. 144. 146. 125 93. 52. 54. 160. 158. 250 77. 77. 78. 147. 151. 500 84. 84. 85. 147. 151. 147. 1000 51. 88. 85. 144. 147. 2000 84. 85. 88. 138. 145. 2000 84. 85. 88. 138. 145. 8000 78. 75. 74. 128. 129. | | | | | | |
| 20000 53. 51. 54. 108. 111. OCTAVE FREQ 63 72. 73. 71. 144. 146. 125 93. 52. 54. 160. 158. 250 77. 77. 78. 147. 151. 500 84. 84. 85. 144. 147. 1000 51. 88. 91. 140. 157. 2000 84. 85. 88. 138. 145. 4000 84. 82. 82. 137. 139. 8000 78. 75. 74. 128. 129. | | | | | | |
| OCTAVE FREQ 63 | | | | | | |
| 63 72. 73. 71. 144. 146. 125 93. 52. 54. 160. 158. 250 77. 77. 78. 147. 151. 500 84. 84. 85. 144. 147. 1000 51. 88. 91. 140. 157. 2000 84. 85. 88. 138. 145. 4000 84. 82. 82. 137. 139. 8000 78. 75. 74. 128. 129. | 20000 | 53. | 51. | 54. | 108. | 111. |
| 63 72. 73. 71. 144. 146. 125 93. 52. 54. 160. 158. 250 77. 77. 78. 147. 151. 500 84. 84. 85. 144. 147. 1000 51. 88. 91. 140. 157. 2000 84. 85. 88. 138. 145. 4000 84. 82. 82. 137. 139. 8000 78. 75. 74. 128. 129. | OCTAVE ERFO | | | | | |
| 125 93. 52. 54. 160. 158. 250 77. 77. 78. 147. 151. 500 84. 84. 85. 144. 147. 1000 51. 88. 91. 140. 157. 2000 84. 85. 88. 138. 145. 4000 84. 82. 82. 137. 139. 8000 78. 75. 74. 128. 129. | | 72. | 73. | 71. | 144. | 146. |
| 250 77. 77. 78. 147. 151. 500 84. 84. 85. 144. 147. 1000 51. 88. 91. 140. 157. 2000 84. 85. 88. 138. 145. 4000 84. 82. 82. 137. 139. 8000 78. 75. 74. 128. 129. | | | | | | |
| 500 84. 84. 85. 144. 147. 1000 \$1. \$6. 91. 140. 157. 2000 84. 85. 88. 138. 145. 4000 84. 82. 82. 137. 139. 8000 78. 75. 74. 128. 129. | | | | | | |
| 1000 \$1. \$\mathref{\mt}\mathref{\mathref{\mathref{\mathref{\mathref{\mathref{\mathref{ | | | | | | |
| 2000 84. 85. 88. 138. 145. 4000 84. 82. 82. 137. 139. 8000 78. 75. 74. 128. 129. | | | | | | |
| 4000 84. 82. 82. 137. 139. 8000 78. 75. 74. 128. 129. | | | | | | |
| 8000 78. 75. 74. 128. 129. | | | | | | |
| | | | | | | |
| | | | | | | |

CONFIGURATION 21 EX-CELL-O AIR BLAST POWER SETTING 40 READING NO. 466

| | | MICRUPHONE | PCSITICN | | |
|--------------|-------------|------------|-------------|--------|------|
| 1/3 JCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 67. | 66. | 67. | 142. | 147. |
| 63 | 75. | 74. | 73. | 141. | 145. |
| 80 | 68. | 66. | 67. | 143. | 146. |
| 100 | 92. | 90. | 92. | 157. | 159. |
| 125 | 74. | 74. | 75. | 144. | 148. |
| 160 | 73. | 73. | 74. | 145. | 145. |
| 200 | 74. | 74. | 74. | 145. | 146. |
| 250 | 75. | 76. | 77. | 145. | 147. |
| 315 | 79. | 78. | 78. | 143. | 147. |
| 400 | 79. | 79. | 80. | 141. | 144. |
| 500 | 78. | £1. | 80. | 140. | 144. |
| 630 | 82. | 82. | 82. | 141. | 144. |
| 800 | 81. | 82. | 81. | 141. | 144. |
| 1000 | 82. | 83. | 82. | 1 | 146. |
| 1250 | 89. | 51. | 9 0. | | 155. |
| 1600 | 81. | 81. | 80. | 1. T 4 | 143. |
| 2000 | 80. | 82. | 80. | 13. | 141. |
| 2500 | 82. | £1. | 81. | 138. | 143. |
| 3150 | . 06 | 75. | 79. | 135. | 138. |
| 4000 | 81. | 75. | 79. | 135. | 139. |
| 5000 | 80. | 79. | 77. | 132. | 139. |
| 6300 | 77. | 76. | 74. | 127. | 135. |
| 8000 | 75. | 75. | 75. | 124. | 136. |
| 10000 | 72. | 72. | 69. | 119. | 132. |
| 12500 | 67. | 66. | 65. | 116. | 126. |
| 16000 | 64. | 62. | 62. | 112. | 125. |
| 20000 | 57. | 55. | 57. | 108. | 122. |
| | | | | | |
| OCTAVE FREQ | | | | | |
| 63 | 76. | 75. | 75. | 147. | 151. |
| 125 | 92. | 50. | 92. | 157. | 159. |
| 250 | 81. | El. | 81. | 149. | 151. |
| 500 | £5 . | 86. | 86. | 145. | 149. |
| 1000 | 90. | 52. | 91. | 150. | 156. |
| 2000 | 86. | 89. | 85. | 142. | 147. |
| 4000 | £5 . | 84. | 83. | 139. | 143. |
| 8000 | 80. | 75. | 78. | 129. | 139. |
| 16000 | 69. | €8. | 67. | 118. | 129. |
| | | | | | |

CONFIGURATION 21 EX-CELL-D AIR BLAST POWER SETTING 55 READING NO. 467

| | | MICROPHONE | PCSITICN | | |
|--------------|-----|-------------|----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 51 | 48. | 69. | 69. | 143. | 146. |
| 63 | 76. | 77. | 77. | 142. | 145. |
| 90 | 68. | et. | 69. | 143. | 146. |
| 100 | 92. | £7. | 95. | 161. | 166. |
| 125 | 73. | 73. | 74. | 148. | 151. |
| 16) | 73. | 74. | 75. | 147. | 149. |
| 200 | 75. | 75. | 74. | 149. | 151. |
| 250 | 75. | 75. | 76. | 147. | 150. |
| 315 | 79. | 78. | 79. | 143. | 148. |
| 400 | 79. | 75. | 79. | 142. | 146. |
| 10 | 79. | . US | e O • | 142. | 146. |
| 4) | 83. | ٤2. | 64. | 144. | 146. |
| , | 82. | 82. | 82. | 141. | 146. |
| 10 1 | 82. | 83. | 83. | 136. | 146. |
| 1250 | 93. | 96. | 55. | 136. | 155. |
| 1600 | 82. | 82. | 81. | 134. | 144. |
| 2000) | 81. | 82. | 81. | 135. | 142. |
| 2500 | 85. | ٤7. | 84. | 135. | 144. |
| 3150 | 80. | 75. | 79. | 136. | 138. |
| 4000 | 82. | 8G. | 78. | 135. | 138. |
| 5000 | 82. | 86. | 78. | 129. | 138. |
| 6300 | 81. | £3. | 79. | 129. | 133. |
| a000 | 82. | £5 . | 83. | 126. | 128. |
| 10000 | 78. | 78. | 75. | 121. | 124. |
| 12500 | 72. | 13. | 70. | 120. | 123. |
| 16000 | 71. | 70. | 67. | 118. | 122. |
| 20000 | 65. | 63. | 64. | 113. | 121. |
| UCTAVE FREQ | | | | | |
| 63 | 79. | 78. | 78. | 147. | 150. |
| 125 | 92. | 87. | 95. | 161. | 166. |
| 250 | 82. | 81. | 82. | 152. | 155. |
| 5(1) | 86. | 85. | 86. | 143. | 151. |
| 1000 | 94. | 96. | 95. | 143. | 156. |
| 2000 | 88. | ٤٩. | 87. | 139. | 148. |
| 4000 | 86. | 84. | 83. | 139. | 143. |
| 300.) | 86. | .83 | 85. | 131. | 135. |
| 1600) | 15. | 75. | 12. | 124. | 127. |

CONFIGURATION 21 EX-CELL-0 AIR BLAST POWER SETTING 75 READING NO. 468

| | | MICROPHONE | PESITION | | |
|--------------|-------|-------------|-------------|------|-------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 70. | 75. | 70. | 141. | 146. |
| 63 | 78. | 78. | 78. | 141. | 144. |
| 80 | 68. | 72. | 69. | 142. | 147. |
| 100 | 94. | 53. | 95. | 163. | 163. |
| 125 | 74. | 76. | 75. | 147. | 152. |
| 100 | 73. | 76. | 75. | 148. | 150. |
| 200 | 77. | 77. | 75. | 151. | 152. |
| 250 | 76. | 78. | 76. | 147. | 150. |
| 315 | 79. | 78. | 79. | 144. | 149. |
| 400 | 79. | 75. | 75. | 143. | 148. |
| 500 | 79. | ec. | 80. | 143. | 147. |
| 630 | 83. | 83. | 84. | 144. | 148. |
| 800 | 82. | £2. | 82. | 143. | 146. |
| 1000 | 83. | e2 . | 83. | 138. | 147. |
| 1250 | 58. | 96. | 97. | 137. | 155. |
| 1600 | 85. | E4 . | £5 . | 135. | 146. |
| 2000 | 82. | 82. | 83. | 135. | 144. |
| 2500 | 87. | .33 | 90. | 136. | 144. |
| 3150 | 81. | 81. | 81. | 137. | 140 • |
| 4000 | 83. | 81. | 81. | 136. | 138. |
| 5000 | 82. | 81. | 79. | 130. | 138. |
| 6300 | 79. | ٤1. | 78. | 130. | 135. |
| 8000 | 8U. | 82. | 81. | 126. | 129. |
| 10000 | 79. | £2. | 30. | 122. | 125. |
| 12500 | 74. | 77. | 73. | 120. | 123. |
| 16000 | 69. | 71. | 69. | 118. | 121. |
| 20000 | 65. | 64. | 65. | 117. | 120. |
| OCTAVE FREQ | | | | | |
| 63 | 79. | .03 | 79. | 146. | 151. |
| 125 | 94. | 93. | 95. | 163. | 164. |
| 250 | 82. | 82. | 82. | 153. | 155. |
| 500 | £ £ • | £6. | 86. | 148. | 152. |
| 1000 | 58. | 96. | 57. | 145. | 156. |
| 2000 | 90. | 50. | 92. | 140. | 150. |
| 4000 | 87. | 86. | 85. | 140. | 144. |
| 8000 | 84. | 86. | 85. | 132. | 136. |
| 16000 | 76. | 78. | 75. | 123. | 126. |

CONFIGURATION 21 EX-CELL-D AIR BLAST POWER SETTING 1LC READING NO. 469

| | | MICROPHO | NE POSITIO | . N | |
|--------------|--------------|-------------|------------|------|------|
| 1/3 UCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 71. | 71. | 71. | 137. | 146. |
| 63 | 79. | 79. | 78. | 143. | 144. |
| 80 | 68. | 68. | 68. | 134. | 148. |
| 100 | 53. | 92. | 92. | 159. | 164. |
| 125 | 74. | 75. | 76. | 142. | 153. |
| 160 | 76. | 75. | 77. | 142. | 152. |
| 260 | 78. | 77. | 76. | 144. | 153. |
| 250 | 78. | 77. | 77. | 144. | 150. |
| 315 | 75. | 75. | 78. | 146. | 150. |
| 400 | 8Ú• | 82. | 8Ú. | 147. | 149. |
| 500 | 78. | 81. | 86. | 147. | 147. |
| 630 | 84. | E4 . | 84. | 151. | 148. |
| 800 | 83. | £5 • | 83. | 151. | 146. |
| 1000 | 83. | 83. | 83. | 149. | 147. |
| 1250 | 58. | 97. | 58. | 163. | 155. |
| 1600 | 90. | 85. | 9U• | 155. | 149. |
| 2000 | 83. | 82. | 82. | 149. | 145. |
| 2500 | 86. | 84. | 84. | 150. | 145. |
| 3151 | 83. | e1. | 80. | 148. | 141. |
| +000 | 84. | 82. | 81. | 148. | 139. |
| 5000 | 85. | 63. | 80. | 149. | 139. |
| 53∪ 0 | 84. | ٤5. | 79. | 150. | 137. |
| 8000 | 84. | 87. | 82. | 153. | 130. |
| 10000 | 82. | £3 . | 78. | 149. | 126. |
| 12500 | 79. | 76. | 73. | 142. | 124. |
| 16000 | 75. | 72. | 69. | 138. | 123. |
| 20000 | 68. | 65. | 65. | 131. | 121. |
| OCTAVE FRED | | | | | |
| 6 3 | 8 U . | 80. | 79. | 144. | 151. |
| 125 | 93. | 52. | 92. | 159. | 165. |
| 250 | 83. | 83. | 82. | 150. | 150. |
| 500 | 86. | 87. | 67. | 154. | 153. |
| 1000 | 98. | 57. | 58. | 163. | 156. |
| 2000 | 92. | 91. | 91. | 157. | 152. |
| 4000 | 89. | 87. | 85. | 153. | 145. |
| 8000 | .83 | 50. | ٤5. | 156. | 138. |
| 16000 | e1. | 78. | 75. | 144. | 128. |

CONFIGURATION 22 EX-CELL-O AIR ASSIST 4.5 0/0 ABOVE BIP POWER SETTING 160 READING NO. 480

| | | MICROPHO | NE PCSITIC | N. | |
|--------------|-----|-------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 72. | 72. | 71. | 145. | 144. |
| 63 | 78. | 78. | 77. | 144. | 145. |
| 80 | 70. | 70. | 69. | 144. | 148. |
| 100 | 72. | 73. | 73. | 152. | 151. |
| 125 | 75. | 76. | 78. | 151. | 154. |
| 160 | 74. | 75. | 75. | 151. | 153. |
| 200 | 76. | 77. | 75. | 155. | 153. |
| 250 | 77. | 76. | 78. | 148. | 149. |
| 315 | 78. | 75. | 79. | 147. | 151. |
| 400 | 78. | eo. | 79. | 146. | 150. |
| 500 | 79. | .09 | 80. | 147. | 148. |
| 630 | 84. | 84. | 83. | 147. | 149. |
| 800 | 83. | £3 . | 83. | 145. | 147. |
| 1000 | 81. | 82. | 82. | 140. | 147. |
| 1250 | 96. | 96. | 94. | 138. | 155. |
| 1600 | ٤7. | E7. | 86. | 137. | 148. |
| 2000 | 82. | 83. | 82. | 138. | 145. |
| 2500 | 85. | E7. | 85. | 139. | 144. |
| 3150 | 82. | El. | 81. | 138. | 142. |
| 4000 | 81. | 81. | 81. | 137. | 139. |
| 5000 | 80. | £2 . | 80. | 132. | 139. |
| 6300 | 78. | 78. | 77. | 132. | 137. |
| 8000 | 73. | 75. | 73. | 126. | 131. |
| 10000 | 65. | 71. | 70. | 123. | 126. |
| 12500 | 66. | 68. | 68. | 122. | 126. |
| 16000 | 64. | 65. | 65. | 120. | 124. |
| 20000 | 62. | 62. | 59. | 119. | 123. |
| OCTAVE FREQ | | | | | |
| 63 | 79. | 79. | 78. | 149. | 151. |
| 125 | 79. | 80. | 81. | 156. | 158. |
| 250 | 82. | 82. | 182. | 156. | 156. |
| 500 | 86. | 67. | 86. | 151. | 154. |
| 1000 | 56. | 96. | 95. | 147. | 156. |
| 2000 | 90. | 51. | 89. | 143. | 151. |
| 4000 | 86. | £6. | 85. | 141. | 145. |
| 8000 | 80. | 80. | 79. | 133. | 138. |
| 16000 | 69. | 70. | 70. | 125. | 129. |

CONFIGURATION 23 EX-CELL-O AIR ASSIST 10 0/0 ABOVE BIP POWER SETTING 10 READING NO. 470

| | | MICROPHO | NE POSITION | | |
|--------------|-------|----------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 63. | 63. | 63. | 136. | 141. |
| 63 | 66. | 67. | 68. | 134. | 138. |
| 80 | 67. | 67. | 68. | 139. | 142. |
| 100 | 72. | 73. | 73. | 143. | 146. |
| 125 | 69. | 68. | 72. | 141. | 147. |
| 160 | 71. | 71. | 71. | 144. | 144. |
| 200 | 73. | 72. | 74. | 139. | 143. |
| 250 | 71. | 70. | 71. | 137. | 142. |
| 315 | 71. | 74. | 73. | 138. | 143. |
| 400 | 75. | 75. | 74. | 136. | 140. |
| 500 | 75. | 77. | 75. | 137. | 141. |
| 630 | 77. | 77. | 78. | 136. | 140. |
| 800 | 75. | 76. | 77. | 135. | 140. |
| 1000 | 85. | 82. | 81. | 132. | 148. |
| 1250 | 81. | 80. | 79. | 131. | 146. |
| 1600 | 74. | 75. | 74. | 131. | 138. |
| 2000 | 73. | 73. | 75. | 131. | 138. |
| 250C | 72. | 73. | 74. | 132. | 136. |
| 3150 | 75. | 75. | 74. | 133. | 133. |
| 4000 | 76. | 76. | 76. | 130. | 133. |
| 5000 | 72. | 74. | 72. | 125. | 131. |
| 6300 | 70. | 72. | 70. | 123. | 126. |
| 8000 | 67. | 70. | 69. | 121. | 123. |
| 10000 | 63. | 66. | 65. | 117. | 118. |
| 12500 | 59. | 62. | 62. | 114. | 115. |
| 16000 | 56. | 58. | 60. | 110. | 114. |
| 20000 | 52. | 52. | 54. | 109. | 112. |
| OCTAVE FREQ | | | | | |
| 63 | 70. | 71. | 72. | 142. | 145. |
| 125 | 76. | 76. | 77. | 148. | 151. |
| 250 | 77. | 77. | 78. | 143. | 147. |
| 500 | 81. | 81. | 81. | 141. | 145. |
| 1000 | 87. | 85. | 84. | 138. | 151. |
| 2000 | 78. | 79. | 79. | 136. | 142. |
| 4000 | 79. | 80. | 79. | 135. | 137. |
| 8000 | 72. | 75. | 73. | 126. | 128. |
| 16000 | 61. | 64. | 65. | 116. | 119. |
| 10000 | • • • | 640 | 07. | 1100 | 4474 |

CONFIGURATION 23 EX-CELL-O AIRASSIST 10 U/O ABOVE BIP POWER SETTING 25 READING NO. 472

| | | MICROPHO | NE POSITION | | |
|--------------|-----|------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 64. | 63. | 66. | 139. | 142. |
| 63 | 70. | 68. | 69. | 137. | 141. |
| 80 | 66. | 67. | 67. | 141. | 143. |
| 100 | 69. | 69. | 71. | 145. | 145. |
| 125 | 68. | 71. | 73. | 143. | 149. |
| 160 | 70. | 71. | 71. | 144. | 146. |
| 200 | 73. | 71. | 72. | 142. | 145. |
| 250 | 72. | 71. | 74. | 141. | 145. |
| 315 | 73. | 74. | 74. | 139. | 144. |
| 400 | 75. | 77. | 76. | 138. | 142. |
| 500 | 78. | .09 | 77. | 139. | 142. |
| 630 | 80. | 80. | 80. | 139. | 142. |
| 800 | 78. | 78. | 79. | 138. | 142. |
| 1000 | 84. | 84. | 86. | 133. | 148. |
| 1250 | 88. | ٤7. | 90. | 133. | 153. |
| 1600 | 77. | 77. | 77. | 133. | 140. |
| 2000 | 75. | 76. | 76. | 133. | 139. |
| 2500 | 76. | 77. | 77. | 134. | 140. |
| 3150 | 78. | 77. | 77. | 134. | 135. |
| 4000 | 78. | 78. | 78. | 133. | 135. |
| 5000 | 75. | 77. | 75. | 127. | 134. |
| 6300 | 72. | 73. | 71. | 125. | 127. |
| 8000 | 69. | 71. | 70. | 123. | 125. |
| 10000 | 65. | 67. | 66. | 119. | 120. |
| 12500 | 61. | 63. | 64. | 116. | 117. |
| 16000 | 57. | 59. | 61. | 111. | 115. |
| 20000 | 53. | 53. | 55. | 109. | 113. |
| OCTAVE FREQ | | | | | |
| 63 | 72. | 71. | 72. | 144. | 147. |
| 125 | 74. | 75. | 77. | 149. | 152. |
| 250 | 77. | 77. | 78. | 146. | 149. |
| 500 | 83. | E4. | 83. | 143. | 147. |
| 1000 | 90. | 89. | 92. | 140. | 154. |
| 2000 | 81. | £1. | 81. | 138. | 144. |
| 4000 | 82. | E2. | 82. | 137. | 139. |
| 8000 | 74. | 76. | 74. | 128. | 130. |
| 16000 | 63. | 65. | 66. | 118. | 120. |

CONFIGURATION 23 EX-CELL-O AIRASSIST 10 0/0 ABOVE BIP POWER SETTING 40 READING NO. 474

| | | MICROPHO | NE POSITIO | N | |
|--------------|-------|-------------|------------|------|------|
| 1/3 OCT FREQ | ι | 2 | 3 | 4 | 5 |
| 50 | 67. | 67. | 69. | 143. | 147. |
| 63 | 75. | 76. | 76. | 142. | 145. |
| 80 | 67. | 68. | 68. | 144. | 148. |
| 100 | 70. | 71. | 71. | 149. | 150. |
| 125 | 72. | 74. | 76. | 148. | 152. |
| 160 | 73. | 73. | 74. | 148. | 149. |
| 200 | 74. | 74. | 75. | 147. | 149. |
| 250 | 75. | 75. | 78. | 145. | 147. |
| 315 | 78. | 80. | 79. | 142. | 147. |
| 400 | 78. | 75. | 79. | 141. | 145. |
| 500 | 79. | E2 . | 80. | 140. | 145. |
| 630 | 83. | 83. | 83. | 142. | 144. |
| 800 | 81. | 81. | 82. | 140. | 145. |
| 1000 | 82. | 82. | 83. | 135. | 147. |
| 1250 | .88 | 85. | 91. | 135. | 155. |
| 1600 | 80. | 80. | 80. | 134. | 143. |
| 2000 | 81. | 80. | 81. | 134. | 142. |
| 2500 | 87. | 82. | 87. | 135. | 142. |
| 3150 | 80. | 75. | 80. | 136. | 138. |
| 4000 | 80. | .08 | 80. | 135. | 139. |
| 5000 | 78. | 80. | 78. | 129. | 139. |
| 6300 | 74. | 75. | 74. | 128. | 132. |
| 8000 | 71. | 73. | 72. | 126. | 127. |
| 10000 | 66. | 69. | 68. | 122. | 124. |
| 12500 | 62. | 65. | 66. | 121. | 123. |
| 16000 | 58. | 60. | 62. | 120. | 122. |
| 20000 | 54. | 55. | 56. | 119. | 122. |
| OCTAVE FREQ | | | | | |
| 63 | 76. | 77. | 77. | 148. | 152. |
| 125 | 77. | 78. | 79. | 153. | 155. |
| 250 | 81. | e2. | 82. | 150. | 153. |
| 500 | £5. | 86. | £6. | 146. | 149. |
| 1000 | 50. | 50. | 92. | 142. | 156. |
| 2000 | 89. | 86. | 89. | 139. | 147. |
| 4000 | 84. | 84. | 84. | 139. | 143. |
| 8000 | 76. | 78. | 77. | 131. | 134. |
| 16000 | 64. | 67. | 58. | 125. | 127. |
| 10000 | U 7 0 | | JO • | 169, | 1210 |

CONFIGURATION 23 EX-CELL-D AIRASSIST 10 0/0 ABOVE BIP POWER SETTING 55 READING NO. 477

| | | MICROPHO | NE POSITIO | N | |
|--------------|-------------|------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 70. | 70. | 71. | 144. | 147. |
| 63 | 76. | 76. | 77. | 143. | 145. |
| 8¢ | 69. | 68. | 69. | 144. | 149. |
| 100 | 70. | 71. | 71. | 151. | 152. |
| 125 | 73. | 73. | 76. | 150. | 154. |
| 160 | 73. | 74. | 74. | 148. | 151. |
| 200 | 74. | 74. | 75. | 149. | 150. |
| 250 | 75. | 76. | 77. | 145. | 148. |
| 315 | 77. | 75. | 79. | 143. | 149. |
| 400 | 78. | 79. | 79. | 143. | 147. |
| 500 | 79. | 81. | 80. | 142. | 146. |
| 630 | 82. | 83. | 82. | 143. | 147. |
| 800 | 81. | 83. | 83. | 141. | 145. |
| 1000 | 81. | 82. | 82. | 136. | 146. |
| 1250 | 89. | 91. | 91. | 136. | 155. |
| 1600 | 81. | 81. | 82. | 134. | 144. |
| 2000 | 80. | 81. | 82. | 135. | 143. |
| 2500 | £3 . | 85. | 86. | 136. | 144. |
| 3150 | 80. | 80. | 81. | 136. | 138. |
| 4000 | 79. | 81. | 80. | 135. | 138. |
| 5000 | 79. | e1. | 79. | 129. | 139. |
| 63U 0 | 75. | 76. | 75. | 129. | 133. |
| 8000 | 72. | 74. | 72. | 126. | 128. |
| 10000 | 68. | 70. | 69. | 121. | 124. |
| 12500 | 64. | 66. | 66. | 121. | 124. |
| 16000 | 60. | 61. | 63. | 119. | 123. |
| 20000 | 54. | 56. | 57. | 119. | 122. |
| OCTAVE FREQ | | | | | |
| 63 | 78. | 77. | 78. | 148. | 152. |
| 125 | 77. | 78. | 79. | 155. | 157. |
| 250 | 80. | 82. | 82. | 151. | 154. |
| 500 | 85. | 86. | 85. | 147. | 151. |
| 1000 | 90. | 52. | 92. | 143. | 156. |
| 2000 | 86. | .83 | 89. | 140. | 148. |
| 4000 | 84. | 85. | 85. | 139. | 143. |
| 8000 | 77. | 79. | 77. | 131. | 135. |
| 16000 | 66. | 68. | 68. | 125. | 128. |

CONFIGURATION 23 EX-CELL-O AIR ASSIST 10 0/0 ABOVE BIP POWER SETTING 75 READING NO. 479

| | | MICROPHO | NE POSITION | | |
|--------------|------------|-------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 72. | 71. | 72. | 144. | 148. |
| 63 | 79. | 78. | 79. | 143. | 146. |
| 80 | 69. | 72. | 71. | 144. | 147. |
| 100 | 71. | 73. | 73. | 150. | 153. |
| 125 | 74 • | 75. | 78. | 150. | 154. |
| 160 | 75. | 74. | 75. | 149. | 153. |
| 200 | 78. | 76. | 76. | 151. | 152. |
| 250 | 77. | 76. | 78. | 145. | 148. |
| 315 | 79. | 78. | 79. | 143. | 149. |
| 400 | 78. | 75. | 79. | 144. | 148. |
| 500 | 80. | 80. | 80. | 143. | 146. |
| 630 | 83. | E4. | 82. | 143. | 148. |
| 800 | 82. | 83 . | 82. | 143. | 146. |
| 1000 | 82. | 82. | 83. | 137. | 147. |
| 1250 | 96. | 54. | 96. | 138. | 155. |
| 1600 | 96. | 55. | 56. | 135. | 146. |
| 2000 | 82. | £2 . | 83. | 136. | 144. |
| 2500 | 84. | 86. | 87. | 137. | 143. |
| 3150 | 84. | 84. | 86. | 137. | 140. |
| 4000 | 82. | e1. | 83. | 135. | 138. |
| 5000 | 80. | 81. | 81. | 130. | 138. |
| 6300 | 80. | 80. | 81. | 130. | 135. |
| 8000 | 79. | 77. | 80. | 126. | 129. |
| 10000 | 71. | 72. | 74. | 122. | 125. |
| 12500 | 67. | 68. | 70. | 121. | 125. |
| 16000 | 65. | 64. | 68. | 120. | 124. |
| 20000 | 62. | 61. | 64. | 119. | 123. |
| OCTAVE FREQ | | | | | |
| 63 | 80. | 80. | 80. | 148. | 152. |
| 125 | 78. | 79. | 81. | 154. | 158. |
| 250 | 83. | £2. | 83. | 152. | 155. |
| 500 | 86. | 86. | 85. | 148. | 152. |
| 1000 | 96. | 95. | 96. | 145. | 156. |
| 2000 | 96. | 56. | 57 . | 141. | 149. |
| 4000 | 87. | £7. | 89. | 140. | 144. |
| 8000 | 82. | £2. | 84. | 132. | 136. |
| 16000 | 70. | 70. | 73. | 125. | 129. |
| 10,00 | 10. | , | 130 | 1670 | 4670 |

CONFIGURATION 24 EX-CELL-O AIR ASSIST 20 0/0 ABOVE BIP POWER SETTING 10 READING NO. 471

| | | MICROPHO | NE POSITION | | |
|--------------|-----|-------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 63. | 62. | 64. | 138. | 140. |
| 63 | 67. | 67. | 68. | 135. | 138. |
| 80 | 67. | £7. | 68. | 140. | 143. |
| 100 | 69. | 70. | 71. | 143. | 145. |
| 125 | 67. | 69. | 71. | 143. | 148. |
| 160 | 71. | 71. | 72. | 145. | 144. |
| 200 | 73. | 71. | 72. | 140. | 144. |
| 250 | 71. | 70. | 72. | 139. | 143. |
| 315 | 72. | 72. | 74. | 139. | 143. |
| 400 | 74. | 76. | 76. | 137. | 140. |
| 500 | 76. | 78. | 77. | 137. | 141. |
| 630 | 78. | 78. | 79. | 137. | 141. |
| 800 | 76. | 77. | 78. | 136. | 141. |
| 1000 | 86. | e3 . | 80. | 145. | 151. |
| 1250 | 82. | El. | 79. | 141. | 148. |
| 1600 | 75. | 75. | 75. | 133. | 138. |
| 2000 | 74. | 74. | 75. | 133. | 138. |
| 2500 | 73. | 74. | 73. | 133. | 136. |
| 3150 | 76. | 75. | 75. | 132. | 133. |
| 4000 | 76. | 76. | 76. | 130. | 133. |
| 5000 | 73. | 74. | 73. | 127. | 131. |
| 6300 | 71. | 72. | 70. | 123. | 125. |
| 8000 | 67. | 65. | 69. | 121. | 123. |
| 10000 | 63. | 67. | 64. | 116. | 118. |
| 12500 | 60. | 63. | 63. | 113. | 115. |
| 16000 | 56. | 58. | 59. | 110. | 114. |
| 20000 | 53. | 52. | 54. | 109. | 112. |
| OCTAVE FREQ | | | | | |
| 63 | 71. | 71. | 72. | 143. | 146. |
| 125 | 74. | 75. | 76. | 149. | 151. |
| 250 | 77. | 76. | 78. | 144. | 148. |
| 500 | 81. | 82. | 82. | 142. | 145. |
| 1000 | 88. | .38 | E4. | 147. | 153. |
| 2000 | 79. | 79. | 79. | 138. | 142. |
| 4000 | 80. | .03 | 80. | 135. | 137. |
| 8000 | 72. | 75. | 73. | 126. | 128. |
| 16000 | 62. | 64. | 65. | 116. | 119. |

CONFIGURATION 24 EX-CELL-O AIR ASSIST 20 0/0 ABOVE BIP POWER SETTING 25 READING NO. 473

| | | MICROPHONE | PCSITICN | | |
|--------------|-----|--------------|----------|------|------|
| 1/3 UCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 64. | 66. | 65. | 139. | 142. |
| 63 | 69. | 69. | 69. | 137. | 141. |
| 80 | 66. | 68. | 68. | 142. | 143. |
| 100 | 68. | 65. | 71. | 145. | 146. |
| 125 | 70. | 71. | 72. | 144. | 148. |
| 160 | 74. | 75. | 72. | 147. | 146. |
| 200 | 72. | 72. | 72. | 143. | 146. |
| 250 | 72. | 72. | 72. | 142. | 145. |
| 315 | 73. | 75. | 74. | 140. | 144. |
| 400 | 75. | 77. | 76. | 139. | 142. |
| 500 | 77. | 81. | 78. | 139. | 142. |
| 630 | 80. | .03 | 80. | 139. | 142. |
| 800 | 78. | 78. | 79. | 138. | 142. |
| 1000 | 83. | 86. | 67. | 133. | 147. |
| 1250 | 66. | 89. | 91. | 133. | 152. |
| 1600 | 77. | 77. | 77. | 133. | 140. |
| 2000 | 82. | 66 • | 88. | 133. | 140. |
| 2500 | 84. | £6. | 90. | 134. | 140. |
| 3150 | 78. | 77. | 77. | 134. | 134. |
| 4000 | 79. | 80. | 80. | 132. | 135. |
| 5000 | 79. | 82. | 83. | 127. | 134. |
| 6300 | 73. | 74. | 73. | 124. | 128. |
| 8000 | 70. | 72. | 72. | 124. | 125. |
| 10000 | 65. | 68. | 68. | 119. | 120. |
| 12500 | 62. | 64. | 67. | 115. | 117. |
| 16000 | 58. | 59. | 63. | 111. | 115. |
| 20000 | 53. | 53. | 56. | 109. | 112. |
| OCTAVE FREQ | | | | | |
| 63 | 72. | 73. | 72. | 145. | 147. |
| 125 | 76. | 77. | 76. | 150. | 152. |
| 250 | 77. | 78. | 78. | 147. | 150. |
| 500 | 83. | 84. | 83. | 144. | 147. |
| 1000 | 88. | 51. | 93. | 140. | 154. |
| 2000 | 87. | 89. | 92. | 138. | 145. |
| 4000 | 83. | E5. | 85. | 137. | 139. |
| 8000 | 75. | 77. | 76. | 128. | 130. |
| 16000 | 64. | 65. | 69. | 117. | 120. |
| • • • • • | | 4) • | J 7. | 4610 | 120. |

CONFIGURATION 24 EX-CELL-O AIRASSIST 20 O/C ABOVE BIP POWER SETTING 40 READING NO. 475

| | | MICROPHO | NE POSITION | | |
|--------------|------------|-------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 70. | 70. | 145. | 146. |
| 63 | 76. | 76. | 77. | 142. | 145. |
| 80 | 68. | 65. | 68. | 143. | 148. |
| 100 | 69. | 71. | 71. | 150. | 150. |
| 125 | 73. | 73. | 76. | 148. | 152. |
| 160 | 74. | 75. | 74. | 148. | 149. |
| 200 | 75. | 74. | 74. | 148. | 148. |
| 250 | 76. | 75. | 77. | 144. | 147. |
| 315 | 78. | 75. | 79. | 142. | 147. |
| 400 | 79. | 75. | 80. | 140. | 144. |
| 500 | 79. | 82. | 80. | 141. | 145. |
| 630 | 82. | 82. | 82. | 142. | 145. |
| 800 | 82. | 82. | 82. | 140. | 145. |
| 1000 | 81. | E3 . | 84. | 134. | 147. |
| 1250 | 88. | 85. | 91. | 135. | 155. |
| 1600 | 80. | ٤0. | 80. | 134. | 143. |
| 2000 | 80. | £0. | 81. | 134. | 142. |
| 2500 | 84. | 82. | 84. | 135. | 142. |
| 3150 | 80. | 75. | 79. | 135. | 138. |
| 4000 | 79. | 80. | 79. | 135. | 139. |
| 5000 | 78. | 80. | 78. | 129. | 138. |
| 6300 | 74. | 75. | 73. | 127. | 131. |
| 8000 | 70. | 72. | 72. | 126. | 126. |
| 10000 | 66. | 69. | 67. | 121. | 123. |
| 12500 | 62. | 65. | 66. | 121. | 123. |
| 16000 | 59. | 60. | 63. | 119. | 122. |
| 20000 | 54. | 54. | 57. | 119. | 122. |
| OCTAVE FREQ | | | | | |
| 63 | 77. | 78. | 78. | 148. | 151. |
| 125 | 77. | 78. | 79. | 154. | 155. |
| 250 | 81. | 81. | 82. | 150. | 152. |
| 500 | 85. | 86. | 86. | 146. | 149. |
| 1000 | 90. | 51. | 92. | 142. | 156. |
| 2000 | 87. | £6. | 87. | 139. | 147. |
| 4000 | 84. | 84. | 83. | 139. | 143. |
| 8000 | 76. | 77. | 76. | 130. | 133. |
| 16000 | 64. | 66. | 68. | 125. | 127. |

CONFIGURATION 24 EX-CELL-D AIR ASSIST 20 0/0 ABOVE BIP POWER SETTING 55 READING NO. 478

| | | MICROPHO | NE POSITICE | V | |
|--------------|--------------|-------------|-------------|------|--------------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 7Ü. | 72. | 61. | 144. | 150. |
| 63 | 78. | 75. | 70. | 142. | 147. |
| 80 | 69. | 69. | 60. | 146. | 149. |
| 100 | 70. | 76. | 61. | 151. | 152. |
| 125 | 73. | 74. | 68. | 149. | 153. |
| 160 | 74. | 74. | 65. | 148. | 151. |
| 200 | 76. | 75. | 66. | 148. | 151. |
| 250 | 76. | 76. | 68. | 146. | 148. |
| 315 | 79. | 179. | 69. | 143. | 149. |
| 400 | 78. | 75. | 69. | 142. | 147. |
| 50 0 | 81. | 82. | 72. | 142. | 146. |
| 630 | 83. | E3 . | 72. | 142. | 147. |
| 800 | € 2 • | 23. | 74. | 142. | 146. |
| 1000 | 81. | 83. | 73. | 136. | 146. |
| 1250 | 95. | 57. | ٤7. | 136. | 155. |
| 1600 | 94. | 90. | 80. | 135. | 144. |
| 2000 | 83. | 83. | 73. | 135. | 143. |
| 2500 | 86. | 67. | 76. | 136. | 143. |
| 3150 | 82. | 81. | 71. | 137. | 139. |
| 4000 | 82. | 81. | 12. | 136. | 139. |
| 5000 | 80. | ٤1. | 71. | 130. | 138. |
| 6300 | 79. | 17. | 68. | 129. | 134. |
| 8000 | 76. | 75. | 65. | 127. | 129. |
| 10000 | 69. | 71. | 60. | 122. | 124. |
| 12500 | 66. | 68. | 58. | 122. | 124. |
| 16000 | 64. | 64. | 56. | 120. | 123. |
| 20000 | 62. | €2. | 53. | 119. | 123. |
| OCTAVE EREO | | | | | |
| OCTAVE FREQ | 7.0 | 80. | 71 | 149. | 154. |
| 63 | 75. | | 71. | 154. | |
| 125 250 | 77. | 78. E2. | 70. 73. | 151. | 157. 154. |
| _ | 82. | | 76. | 147. | 151. |
| 500 | 86. | £6. | | | |
| 1000 | 95 . | 57. 52. | 87. | 144. | 156. |
| 2000 | 95. | 86. | 82. 76. | 140. | 148. 143. |
| 4000 | 86. | | | 140. | |
| 8000 | 81. | 80. | 70. | 132. | 136. |
| 16000 | 69. | 70. | 61. | 125. | 128. |

CONFIGURATION 25
VAR GEOM CONST DIA SWIRL DOME 0/0 OPEN DZ = 0
POWER SETTING 75
READING NO. 457

| | | MICROPHONE | PESITION | | |
|--------------|-----|------------|----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 68. | | 0. | 133. | 142. |
| 63 | 75. | | 0. | 133. | 143. |
| 80 | 68. | | 0. | 134. | 143. |
| 100 | 69. | | 0. | 137. | 147. |
| 125 | 72. | | 0. | 138. | 152. |
| 160 | 74. | | 0. | 142. | 152. |
| 200 | 74. | | 0. | 138. | 150. |
| 250 | 76. | | 0. | 135. | 147. |
| 315 | 79. | | 0. | 137. | 147. |
| 400 | 80. | | 0. | 138. | 144. |
| 500 | 79. | | 0. | 137. | 143. |
| 630 | 82. | | 0. | 133. | 144. |
| 800 | 81. | | 0. | 133. | 145. |
| 1000 | 81. | | ٥. | 136. | 145. |
| 1250 | 84. | | 0. | 135. | 147. |
| 1600 | 81. | | 0. | 134. | 144. |
| 2000 | 80. | | 0. | 134. | 142. |
| 2500 | 81. | | 0. | 134. | 142. |
| 3150 | 80. | | 0. | 132. | 138. |
| 4000 | 80. | | 0. | 130. | 137. |
| 5000 | 85. | | 0. | 127. | 138. |
| 6300 | 79. | | 0. | 126. | 138. |
| 8000 | 77. | | 0. | 123. | 131. |
| 10000 | 80. | | 0. | 121. | 129. |
| 12500 | 71. | | 0. | 117. | 127. |
| 16000 | 69. | | 0. | 114. | 126. |
| 20000 | 64. | | 0. | 111. | 124. |
| OCTAVE FREQ | | | | | |
| 63 | 76. | | 0. | 138. | 147. |
| 125 | 77. | | 0. | 144. | 156. |
| 250 | 82. | | 0. | 142. | 153. |
| 500 | 86. | | 0. | 141. | 148. |
| 1000 | 87. | | 0. | 140. | 151. |
| 2000 | 85. | | 0. | 139. | 148. |
| 4000 | 87. | | 0. | 135. | 142. |
| 8000 | 84. | | 0. | 129. | 139. |
| 16000 | 74. | | 0. | 119. | 131. |

CONFIGURATION 26 VAR GEOM CONST DIA SWIRL DOME 0/0 CPEN DZ = 10 POWER SETTING 40 READING NO. 450

| | | MICROPHO | NE POSITION | | |
|--------------|------------|-------------|-------------|----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 68. | 69. | 0. | 0. | 0. |
| 63 | 77. | 78. | 0. | 0. | 0. |
| 80 | 67. | 67. | 0. | 0. | 0. |
| 100 | 71. | 75. | u. | 0. | 0. |
| 125 | 74. | 74. | 0. | 0. | 0. |
| 160 | 74. | 74. | 0. | 0. | 0. |
| 200 | 78. | 76. | 0. | 0. | 0. |
| 250 | 78. | 77. | 0. | 0. | 0. |
| 31 5 | 80. | eG. | 0. | 0. | 0. |
| 400 | 81. | 80. | 0. | 0. | 0. |
| 500 | e1. | 82. | 0. | 0. | 0. |
| 630 | 84. | 83. | 0. | 0. | 0. |
| 800 | 84. | £5 . | 0. | 0. | 0. |
| 1000 | 84. | 83. | 0. | 0. | 0. |
| 1250 | 84. | 83. | 0. | 0. | C. |
| 1600 | 83. | 83. | 0. | 0. | 0. |
| 2000 | 80. | 81. | 0. | 0. | 0. |
| 2500 | 82. | 84. | 0. | 0. | 0. |
| 315 0 | 80. | 80. | 0. | 0. | 0. |
| 4000 | 81. | 80. | 0. | 0. | 0. |
| 5000 | 80. | 78. | 0. | 0. | 0. |
| 6300 | 77. | 76. | 0. | 0. | 0. |
| 8000 | 77. | 74. | 0. | 0. | 0. |
| 10000 | 72. | 71. | 0. | 0. | 0. |
| 12500 | 68. | 67. | 0. | 0. | 0. |
| 16000 | 62. | £3. | 0. | 0. | 0. |
| 20000 | 57. | 56. | 0. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 78. | 79. | 0. | 0. | 0. |
| 125 | 78. | 75. | 0. | 0. | o. |
| 250 | 84. | 83. | 0. | o. | o. |
| 500 | 87. | 87. | 0. | o. | 0. |
| 1000 | 89. | 65. | 0. | ŏ. | o. |
| 2000 | 87. | 88. | 0. | 0. | ŏ. |
| 4000 | 85. | 84. | 0. | 0. | o. |
| 8000 | 81. | 79. | 0. | 0. | o. |
| 16000 | 69. | 65. | 0. | 0. | o. |
| | | | | | |

CONFIGURATION 27 VAR GEOM CONST DIA SWIRL DOME 0/0 CPEN DZ = 20 POWER SETTING 25 READING NO. 468

| | | MICROPHONE | POSITICA | | |
|-----------------------|-----|-------------|----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 68. | 67. | 0. | 127. | 145. |
| 63 | 70. | 67. | 0. | 127. | 143. |
| 80 | 67. | 67. | 0. | 124. | 141. |
| 100 | 68. | 70. | 0. | 127. | 144. |
| 125 | 71. | 70. | 0. | 128. | 141. |
| 160 | 73. | 74. | 0. | 131. | 142. |
| 200 | 74. | 73. | 0. | 131. | 142. |
| 250 | 72. | 73. | 0. | 129. | 142. |
| 315 | 75. | 74. | 0. | 131. | 142. |
| 400 | 77. | 76. | 0. | 134. | 143. |
| 500 | 77. | .09 | 0. | 134. | 145. |
| 630 | 80. | 81. | 0. | 137. | 147. |
| 800 | 81. | €2. | 0. | 138. | 148. |
| 1000 | 82. | 81. | 0. | 139. | 149. |
| 1250 | 81. | 82. | 0. | 139. | 150. |
| 1600 | 80. | 75. | 0. | 136. | 145. |
| 2000 | 77. | 77. | 0. | 134. | 144. |
| 2500 | 77. | 77. | 0. | 134. | 143. |
| 3150 | 77. | 77. | 0. | 134. | 143. |
| 4000 | 79. | 78. | 0. | 136. | 144. |
| 5000 | 77. | 76. | 0. | 134. | 143. |
| 6300 | 75. | 74. | 0. | 132. | 139. |
| 8000 | 74. | 73. | 0. | 131. | 139. |
| 10000 | 70. | 70. | U. | 128. | 137. |
| 12500 | 65. | 66. | 0. | 123. | 133. |
| 16000 | 41. | 61. | 0. | 118. | 128. |
| 20000 | 56. | 54. | 0. | 112. | 123. |
| | | | | | |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 12. | 0. | 131. | 148. |
| 125 | 76. | 77. | 0. | 134. | 147. |
| 250 | 79. | 78. | 0. | 135. | 147. |
| 500 | 83. | 84. | 0. | 140. | 150. |
| 1000 | 86. | 86. | 0. | 143. | 154. |
| 2000 | 83. | E3 . | 0. | 140. | 149. |
| 4000 | 83. | £2. | 0. | 140. | 148. |
| 8 0 0 0 | 78. | 17. | 0. | 135. | 143. |
| 16000 | 67. | 67. | 0. | 124. | 135. |

CONFIGURATION 27
VAR GEOM CONST DIA SWIRL DOME 0/0 GPEN DZ = 20
POWER SETTING 40
READING NO. 489

| 1/0 000 000 | | MICROPHONE | PCSITICA | | |
|--------------|------|-------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 80. | 17. | 0. | 143. | 150. |
| 63 | 82. | 81. | 0. | 142. | 150. |
| 80 | 77. | 75. | 0. | 147. | 152. |
| 100 | 83. | 81. | 0. | 151. | 156. |
| 125 | 82. | 81. | 0. | 145. | 154. |
| 160 | 83. | 81. | o. | 146. | 153. |
| 200 | 84. | 81. | 0. | 142. | 153. |
| 250 | 85. | e3 . | o. | 141. | 149. |
| 315 | 89. | 86. | 0. | 141. | 149. |
| 400 | 88. | 87. | 0. | 142. | 146. |
| 500 | 88. | 89. | 0. | 139. | |
| 630 | 92. | 50. | 0. | 133. | 146. |
| 800 | 91. | 50. | 0. | 133. | 145. |
| 1000 | 92. | 90. | 0. | 138. | 147. |
| 1250 | 100. | 102. | 0. | 136. | 147. |
| 1600 | 94. | 94. | 0. | 134. | 152. |
| 2000 | 90. | 87. | 0. | 134. | 143. |
| 2500 | 95. | 92. | 0. | | 142. |
| 3150 | 88. | 86. | 0. | 133. | 144. |
| 4000 | 89. | €€. | 0. | 132. | 138. |
| 5000 | 88. | £5. | 0. | 130. | 140. |
| 6300 | 85. | 83. | 0. | 127. | 138. |
| 8000 | 84. | 81. | 0. | 126. | 135. |
| 10000 | 80. | 78. | 0. | 125. | 129. |
| 12500 | 75. | 73. | 0. | 120. | 127. |
| 16000 | 71. | 69. | | 121. | 124. |
| 20000 | 65. | 63. | 0. | 119. | 123. |
| | | C3 • | 0. | 119. | 122. |
| OCTAVE FREQ | | | | | |
| 63 | 85. | 83. | 0. | 149. | 156. |
| 125 | 87. | £6. | 0. | 153. | 159. |
| 250 | 51. | 89. | 0. | 146. | |
| 500 | 95. | 94. | 0. | 144. | 156. |
| 1000 | 101. | 103. | 0. | 141. | 150. |
| 2000 | 98. | 57. | 0. | 138. | 154. |
| 4000 | 93. | 91. | 0. | | 148. |
| 8000 | 88. | 86. | 0. | 135. | 144. |
| 16000 | 77. | 75. | 0. | 129. | 136. |
| | | • • • | U • | 125. | 128. |

CONFIGURATION 27
VAR GEDM CONST DIA SWIRL DOME 0/3 CPEN DZ = 20
POWER SETTING 55
READING NO. 495

| | | MICROPHO | NE POSITION | | |
|--------------|-------------|-------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 70. | 70. | 0. | 140. | 148. |
| 63 | 74. | 76. | 0. | 140. | 151. |
| 80 | 71. | 70. | 0. | 144. | 153. |
| 100 | 73. | 73. | 0. | 148. | 155. |
| 125 | 74. | 74. | 0. | 143. | 154. |
| 160 | 74. | 73. | 0. | 145. | 152. |
| 200 | 75. | 76. | 0. | 141. | 154. |
| 250 | 77. | 77. | 0. | 139. | 149. |
| 315 | 80. | 75. | 0. | 140. | 149. |
| 400 | 80. | 80. | 0. | 140. | 147. |
| 500 | 79. | 81. | 0. | 139. | 146. |
| 630 | 84. | E5. | 0. | 132. | 146. |
| 800 | 83. | 83. | 0. | 132. | 147. |
| 1000 | ٤5. | 83. | 0. | 138. | 148. |
| 1250 | 90. | 50. | 0. | 137. | 152. |
| 1600 | e5 . | 84. | 0. | 134. | 144. |
| 2000 | 82. | 82. | 0. | 133. | 143. |
| 2500 | e4 • | 85. | 0. | 133. | 146. |
| 3150 | 80. | 81. | 0. | 131. | 139. |
| 4000 | 81. | e2 • | 0. | 129. | 140. |
| 5000 | 83. | es. | 0. | 128. | 140. |
| 6300 | 78. | 78. | 0. | 124. | 136. |
| 8000 | 78. | 76. | 0. | 123. | 130. |
| 10000 | 85. | 81. | 0. | 125. | 132. |
| 12500 | 70. | 69. | 0. | 117. | 127. |
| 16000 | 69. | 68. | v. | 116. | 129. |
| 20000 | 64. | 62. | 0. | 109. | 123. |
| OCTAVE FREQ | | | | | |
| 63 | 77. | 78. | 0. | 147. | 156. |
| 125 | 78. | 78. | 0. | 151. | 159. |
| 250 | 83. | 82. | U. | 145. | 156. |
| 500 | 86. | e7. | 0. | 143. | 151. |
| 1000 | 92. | 51. | 0. | 141. | 154. |
| 2000 | 89. | E 9. | 0. | 138. | 149. |
| 4000 | £6. | 50. | 0. | 134. | 144. |
| 8000 | 86 • | 84. | 0. | 129. | 138. |
| 16000 | 73. | 72. | 0. | 120. | 132. |

CONFIGURATION 2E VAR GEDM CONST DIA SWIRL DCME 0/0 CPEN DZ = 40 POWER SETTING 10 READING NO. 484

| | | MICROPHO | NE POSITION | | |
|--------------|-----|------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 62. | 63. | 63. | 139. | 145. |
| 63 | 67. | 67. | 65. | 138. | 147. |
| 80 | 67. | 66. | 68. | 143. | 146. |
| 100 | 66. | 67. | 70. | 143. | 147. |
| 125 | 68. | 65. | 71. | 141. | 150. |
| 160 | 70. | 69. | 72. | 143. | 148. |
| 200 | 70. | 70. | 70. | 140. | 148. |
| 250 | 70. | 71. | 71. | 138. | 146. |
| 31 5 | 76. | 74. | 75. | 140. | 144. |
| 400 | 77. | 76. | 76. | 139. | 141. |
| 500 | 78. | 75. | 75. | 133. | 141. |
| 630 | 77. | 75. | 78. | 129. | 140. |
| 800 | 79. | 78. | 78. | 130. | 142. |
| 1000 | 80. | 78. | 80. | 132. | 150. |
| 1250 | 78. | 77. | 78. | 131. | 146. |
| 1600 | 77. | 76. | 75. | 131. | 139. |
| 2000 | 74. | 74. | 74. | 130. | 139. |
| 2500 | 74. | 73. | 72. | 129. | 137. |
| 3150 | 74. | 73. | 71. | 128. | 134. |
| 4000 | 76. | 75. | 72. | 124. | 135. |
| 5000 | 74. | 72. | 69. | 123. | 132. |
| 6300 | 71. | 69. | 66. | 120. | 128. |
| 8000 | 70. | 69. | 65. | 120. | 125. |
| 10000 | 66. | 66. | 62. | 115. | 123. |
| 12500 | 62. | €2. | 59. | 114. | 123. |
| 16000 | 58. | 59. | 55. | 111. | 123. |
| 20000 | 54. | 54. | 49. | 110. | 122. |
| OCTAVE FREQ | | | | | |
| 63 | 71. | 70. | 71. | 145. | 151. |
| 125 | 73. | 73. | 76. | 147. | 153. |
| 250 | 78. | 77. | 77. | 144. | 151. |
| 500 | 82. | £3. | 81. | 140. | 145. |
| 1000 | 84. | ٤2. | 84. | 136. | 152. |
| 2000 | 8Ú• | 79. | 79. | 135. | 143. |
| 4000 | 80. | 78. | 76. | 130. | 139. |
| 8000 | 74. | 73. | 69. | 124. | 131. |
| 16000 | £4. | 64. | 61. | 117. | 127. |

CONFIGURATION 28
VAR GEOM CONST DIA SWIRL DOME 0/0 CFEN DZ = 40
POWER SETTING 25
READING NO. 485

| | | MICROPHO | NE POSITIO | N | |
|--------------|-------------|------------|------------|------|-------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 64. | 65. | 64. | 140. | 143. |
| 63 | 68. | 67. | 68. | 139. | 147. |
| 80 | 66. | 66. | 69. | 142. | 146. |
| 100 | 67. | 68. | 71. | 143. | 148. |
| 125 | 69. | 71. | 71. | 141. | 150. |
| 160 | 71. | 71. | 74. | 143. | 148. |
| 200 | 71. | 70. | 70. | 139. | 147. |
| 250 | 71. | 72. | 71. | 140. | 146. |
| 315 | 75. | 74. | 74. | 141. | 147. |
| 400 | 76. | 74. | 75. | 141. | 143. |
| 500 | 77. | .03 | 76. | 136. | 142. |
| 630 | 78. | 79. | 79. | 131. | 142. |
| 800 | 79. | 79. | 78. | 131. | 144. |
| 1000 | 83. | €2. | 82. | 135. | 148. |
| 1250 | e5 . | 84. | 83. | 133. | 150. |
| 1600 | 79. | 78. | 77. | 132. | 141. |
| 2000 | 80. | 75. | 78. | 132. | 140 - |
| 2500 | 77. | 77. | 77. | 131. | 140. |
| 3150 | 76. | 75. | 74. | 130. | 135. |
| 4000 | 78. | 77. | 77. | 127. | 136. |
| 5000 | 75. | 74. | 74. | 125. | 134. |
| 6300 | 73. | 71. | 70. | 122. | 129. |
| 8000 | 71. | 70. | 67. | 121. | 126. |
| 10000 | 68. | 67. | 65. | 117. | 126. |
| 12500 | 63. | £3. | 63. | 115. | 124. |
| 16000 | 59. | 59. | 58. | 111. | 122. |
| 20000 | 54. | 54. | 54. | 109. | 122. |
| OCTAVE FREQ | | | | | |
| 63 | 71. | 71. | 72. | 145. | 150. |
| 125 | 74. | 75. | 77. | 147. | 154. |
| 250 | 78. | 77. | 77. | 145. | 151. |
| 500 | 82. | 83. | 82. | 143. | 147. |
| 1000 | .83 | £7. | 86. | 138. | 153. |
| 2000 | 84. | 83. | 82. | 136. | 145. |
| 4000 | 81. | 80. | 80. | 133. | 140. |
| 8000 | 76. | 74. | 73. | 125. | 132. |
| 16000 | 65. | 65. | 65. | 117. | 128. |

CONFIGURATION 2E VAR GEDM CUNST DIA SWIRL DOME 0/C OPEN DZ = 40 POWER SETTING 40 READING NO. 451

| | | MICROPHO | NE POSITIC | ٨ | |
|--------------|-----|--------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 63. | 65 . | 0. | 141. | 145. |
| 63 | 72. | 73. | 0. | 138. | 146. |
| 80 | 66. | 66. | 0. | 142. | 146. |
| 100 | 72. | 73. | 0. | 142. | 145. |
| 125 | 74. | 73. | 0. | 140. | 147. |
| 160 | 74. | 73. | 0. | 144. | 150. |
| 200 | 72. | 73. | 0. | 139. | 146. |
| 250 | 75. | 76. | 0. | 140. | 146. |
| 315 | 80. | 75. | v. | 141. | 147. |
| 400 | 79. | 75. | 0. | 141. | 144. |
| 500 | 79. | 81. | 0. | 139. | 144. |
| 630 | 82. | ٤2. | 0. | 135. | 144. |
| 800 | 81. | ٤1. | 0. | 135. | 145. |
| 1000 | 84. | 82. | 0. | 139. | 147. |
| 1250 | 90. | £7. | 0. | 143. | 154. |
| 1600 | 80. | £1. | 0. | 136. | 143. |
| 2000 | 80. | EQ. | 0. | 134. | 142. |
| 2500 | 81. | 85. | 0. | 134. | 143. |
| 3150 | 79. | 78. | 0. | 132. | 138. |
| 4000 | 80. | 75. | 0. | 131. | 139. |
| 5000 | 79. | 78. | 0. | 127. | 137. |
| 6300 | 75. | 75. | 0. | 126. | 133. |
| 0008 | 74. | 73. | 0. | 124. | 129. |
| 10000 | 69. | 69. | 0. | 119. | 126. |
| 12500 | 65. | 66. | 0. | 117. | 124. |
| 16000 | 60. | 62. | 0. | 112. | 123. |
| 20000 | 55. | 55. | 0. | 109. | 122. |
| | | | | • | |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 74. | 0. | 145. | 150. |
| 125 | 78. | 78. | 0. | 147. | 153. |
| 250 | 82. | 81. | 0. | 145. | 151. |
| 500 | 85. | 86. | 0. | 144. | 149. |
| 1000 | 91. | 89. | 0. | 145. | 155. |
| 2000 | 85. | E7. | 0. | 140. | 147. |
| 4000 | 84. | 63. | 0. | 135. | 143. |
| 8000 | 78. | 78. | 0. | 129. | 135. |
| 16000 | 67. | 68. | 0. | 119. | 128. |
| | | - | | | |

CONFIGURATION 28

VAR GEOM CONST DIA SWIRL DOME 0/0 CPEN DZ = 40

POWER SETTING 55

READING NO. 454

| | | MICROPHEN | E POSITION | | |
|--------------|-----|-------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 68. | 69. | v. | 136. | 142. |
| 63 | 75. | 75. | 0. | 135. | 141. |
| 80 | 67. | 67. | 0. | 139. | 144. |
| 100 | 69. | 70. | 0. | 141. | 146. |
| 125 | 73. | 76. | 0. | 140. | 146. |
| 160 | 74. | 73. | 0. | 144. | 150. |
| 200 | 74. | 75. | 0. | 139. | 147. |
| 250 | 76. | 76. | O. | 140. | 147. |
| 315 | 79. | 79. | 0. | 141. | 147. |
| 400 | 79. | 75. | 0. | 141. | 146. |
| 500 | 78. | 80. | v • | 139. | 145. |
| 630 | 82. | 83. | 0. | 134. | 145. |
| 800 | 81. | 81. | 0. | 134. | 146. |
| 1000 | 85. | 82. | 0. | 138. | 148. |
| 1250 | 94. | 91. | 0. | 139. | 154. |
| 1600 | 82. | £1. | 0. | 135. | 144. |
| 2000 | 80. | 79. | 0. | 134. | 143. |
| 2500 | 83. | 81. | 0. | 134. | 144. |
| 3150 | 79. | 79. | ٥. | 133. | 140. |
| 4000 | 81. | .09 | 0. | 131. | 140. |
| 5000 | 86. | £5 • | 0. | 128. | 141. |
| 6300 | 76. | 75. | v. | 126. | 135. |
| 8000 | 75. | 73. | 0. | 124. | 130. |
| 10000 | 80. | £2. | 0. | 120. | 128. |
| 12500 | 7Ú. | 69. | 0. | 117. | 127. |
| 16000 | 70. | 70. | 0. | 114. | 128. |
| 20000 | 64. | 63. | 0. | 110. | 123. |
| OCTAVE FREQ | | | | | |
| 63 | 76. | 76. | 0. | 142. | 147. |
| 125 | 77. | 78. | 0. | 147. | 153. |
| 250 | 82. | £2 • | 0. | 145. | 152. |
| 500 | 85. | .39 | 0. | 144. | 150. |
| 1000 | 95. | 52 • | 0. | 142. | 155. |
| 2000 | 87. | £5. | 0. | 139. | 148. |
| 4000 | .88 | 87. | 0. | 136. | 145. |
| 8000 | 82. | 83. | 0. | 129. | 137. |
| 16000 | 74. | 73. | 0. | 119. | 131. |

CONFIGURATION 29 VAR GEOM CONST DIA SWIRL DOME 0/0 OPEN DZ = 60 POWER SETTING 10 READING NO. 483

| | | MICROPHONE | PCSITICN | | |
|--------------|-----|-------------|----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 63. | €2. | 62. | 139. | 142. |
| 63 | 68. | 67. | 64. | 139. | 143. |
| 80 | 66. | £6. | 69. | 142. | 145. |
| 100 | 65. | 66. | 71. | 143. | 147. |
| 125 | 68. | 70. | 72. | 141. | 146. |
| 160 | 71. | es. | 72. | 142. | 145. |
| 200 | 70. | 70. | 70. | 141. | 145. |
| 250 | 71. | 71. | 72. | 140. | 144. |
| 315 | 74. | 73. | 75. | 139. | 143. |
| 400 | 76. | 74. | 74. | 139. | 139. |
| 500 | 77. | 80. | 76. | 133. | 140. |
| 630 | 78. | 78. | 79. | 130. | 139. |
| 800 | 78. | 77. | 78. | 130. | 141. |
| 1000 | 82. | E3 . | 81. | 132. | 149. |
| 1250 | 78. | 75. | 77. | 131. | 144. |
| 1600 | 77. | 76. | 75. | 131. | 139. |
| 2000 | 75. | 74. | 75. | 130. | 139. |
| 2500 | 73. | 73. | 72. | 129. | 137. |
| 3150 | 74. | 73. | 72. | 128. | 133. |
| 4000 | 75. | 75. | 73. | 124. | 134. |
| 500 0 | 74. | 72. | 69. | 123. | 132. |
| 6300 | 71. | 69. | 66. | 120. | 127. |
| 8000 | 70. | 68. | 65. | 120. | 125. |
| 10000 | 66. | 66. | 62. | 116. | 122. |
| 12500 | 62. | 61. | 58. | 114. | 119. |
| 16000 | 58. | 57. | 54. | 110. | 116. |
| 20000 | 54. | 53. | 49. | 109. | 114. |
| OCTAVE FREQ | | | | | |
| 63 | 71. | 70. | 71. | 145. | 148. |
| 125 | 73. | 73. | 76. | 147. | 151. |
| 250 | 77. | 76. | 78. | 145. | 149. |
| 500 | 82. | 83. | 82. | 140. | 144. |
| 1000 | 85. | £5. | 84. | 136. | 151. |
| 2000 | 80. | 75. | 79. | 135. | 143. |
| 4000 | 79. | 78. | 76. | 130. | 138. |
| 8000 | 74. | 73. | 69. | 124. | 130. |
| 16000 | 64. | 63. | 60. | 116. | 122. |

CONFIGURATION 25
VAR GEDM CONST DIA SWIRL DOME 0/0 CPEN DZ = 60
POWER SETTING 25
READING NO. 466

| | | MICROPHO | NE POSITIC | N | |
|--------------|-------------|-------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 70. | 61. | 81. | 140. | 143. |
| 63 | 70. | 65. | 79. | 139. | 143. |
| 80 | 69. | 66. | 81. | 138. | 142. |
| 100 | 73. | 70. | 82. | 141. | 144. |
| 125 | 73. | 70. | 80. | 144. | 146. |
| 160 | 71. | 69. | 83. | 140. | 143. |
| 200 | 73. | 68. | 79. | 141. | 144. |
| 250 | 73. | 71. | 81. | 142. | 145. |
| 315 | 75. | 73. | 83. | 142. | 145. |
| 400 | 75. | 73. | 81. | 138. | 142. |
| 500 | 82. | 75. | 78. | 139. | 142. |
| 630 | 81. | 78. | 73. | 138. | 142. |
| 800 | 80. | 78. | 72. | 140. | 142. |
| 1000 | 87. | 81. | 76. | 144. | 147. |
| 1250 | 87. | 81. | 75. | 146. | 149. |
| 1600 | 79. | 76. | 74. | 138. | 141. |
| 2000 | 86. | 75. | 74. | 138. | 140. |
| 2500 | 81. | 79. | 73. | 137. | 141. |
| 3150 | 81. | 78. | 73. | 133. | 136. |
| 4000 | 81. | eo. | 69. | 133. | 136. |
| 5000 | 78. | 75. | 67. | 132. | 134. |
| 6300 | 73. | 69. | 65. | 126. | 129. |
| 8000 | 72. | 67. | 64. | 123. | 126. |
| 10000 | 69. | 66. | 59. | 119. | 122. |
| 12500 | 66. | 63. | 57. | 115- | 117. |
| 16000 | 61. | 57. | 54. | 113. | 116. |
| 20000 | 55. | 52. | 52. | 110. | 113. |
| OCTAVE FREQ | | | | | |
| 63 | 74. | 69. | £5 • | 144. | 147. |
| 125 | 77. | 74. | 87. | 147. | 149. |
| 250 | 79. | 76. | 86. | 146. | 149. |
| 500 | 85. | e1. | 83. | 143. | 147. |
| 1000 | 90 • | £5. | 79. | 149. | 152. |
| 2000 | 88. | E3 . | 78. | 142. | 145. |
| 4000 | 85. | 83. | 75. | 137. | 140. |
| 8000 | 76. | 72. | 68. | 128. | 131. |
| 16000 | 67. | 64. | 60. | 118. | 120. |

CONFIGURATION 25
VAR GEOM CONST DIA SWIRL DOME 0/0 CPEN DZ = 60
POWER SETTING 40
READING NO. 452

| | | MICROPHONE | POSITICA | | |
|--------------|------------|-------------|----------|------|------|
| 1/3 OCT F#50 | 1 | 2 | 3 | 4 | 5 |
| 50 | 80. | 67. | 0. | 136. | 140. |
| 63 | 80. | 72. | 0. | 135. | 139. |
| 80 | 80. | 66. | 0. | 138. | 140. |
| 100 | 83. | 67. | 0. | 140. | 142. |
| 125 | 86. | 72. | 0. | 141. | 146. |
| 160 | 83. | 71. | 0. | 142. | 144. |
| 200 | 84. | 72. | 0. | 139. | 144. |
| 250 | 84. | 75. | 0. | 140. | 144. |
| 315 | 84. | 77. | 0. | 142. | 145. |
| 400 | 82. | 76. | 0. | 140. | 142. |
| 500 | 83. | 78. | 0. | 139. | 143. |
| 630 | 82. | e u. | 0. | 137. | 143. |
| 800 | 83. | 75. | 0. | 138. | 144. |
| 1000 | ٤5. | E1. | 0. | 141. | 147. |
| 1250 | 90. | 86. | o. | 145. | 152. |
| 1600 | 81. | 78. | 0. | 136. | 142. |
| 2000 | 81. | 78. | 0. | 136. | 142. |
| 2500 | 81. | e1. | 0. | 137. | 142. |
| 3150 | 77. | 76. | 0. | 133. | 138. |
| 4000 | 77. | 77. | 0. | 132. | 138. |
| 5000 | 75. | 76. | 0. | 131. | 137. |
| 6300 | 71. | 72. | 0. | 127. | 132. |
| 8000 | 67. | 71. | 0. | 124. | 128. |
| 10000 | 64. | 67. | 0. | 120. | 125. |
| 12500 | 59. | 62. | 0. | 117. | 120. |
| 16000 | 56. | 58. | 0. | 113. | 118. |
| 20000 | 52. | 53. | 0. | 110. | 113. |
| UCTAVE FREQ | | | | | |
| 63 | 35. | 74. | 0. | 141. | 144. |
| 125 | 89. | 75. | ő. | 146. | 149. |
| 250 | 89. | 80. | 0. | 145. | 149. |
| 500 | e7. | £3. | 0. | 144. | 147. |
| 1000 | 52. | €8. | 0. | 147. | 154. |
| 2000 | 86. | 84. | Ö. | 141. | 147. |
| 4000 | 81. | 81. | 0. | 137. | 142. |
| 8000 | 73. | 75. | 0. | 129. | 134. |
| 16000 | 61. | 64. | 0. | 119. | 123. |
| | | | | | |

CONFIGURATION 29
VAR GEOM CONST DIA SWIRL DO E 0/0 OPEN DZ = 60
POWER SETTING 55
READING NO. 453

| | | MICROPHONE | PCSITION | | |
|--------------|------|------------|----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 74. | | 0. | 135. | 140. |
| 63 | 78. | | 0. | 133. | 139. |
| 80 | 76. | | 0. | 137. | 142. |
| 100 | 78. | | 0. | 140. | 144. |
| 125 | 82. | | 0. | 141. | 146. |
| 160 | 82. | | U. | 143. | 145. |
| 200 | 83. | | 0. | 139. | 146. |
| 250 | 85. | | 0. | 141. | 146. |
| 315 | 90. | | 0. | 144. | 147. |
| 400 | 90. | | 0. | 141. | 144. |
| 500 | 89. | | 0. | 139. | 144. |
| 630 | 92. | | 0. | 134. | 144. |
| 800 | 51. | | Ö. | 133. | 145. |
| 1000 | 93. | | 0. | 137. | 146. |
| 1250 | 100. | | Ů. | 137. | 150. |
| 1600 | 91. | | 0. | 135. | 143. |
| 2000 | 90. | | 0. | 135. | 142. |
| 2500 | 93. | | U. | 134. | 143. |
| 3150 | 89. | | ٥. | 133. | 139. |
| 4000 | 90. | | 0. | 131. | 138. |
| 5000 | 93. | | 0. | 129. | 139. |
| 6300 | 86. | | 0. | 126. | 134. |
| 3000 | ٤5. | | 0. | 124. | 129. |
| 10000 | 90. | | 0. | 123. | 130. |
| 12500 | 77. | | 0. | 118. | 122. |
| 16000 | 78. | | 0. | 117. | 121. |
| 20000 | 71. | | ٥. | 110. | 116. |
| OCTAVE FREQ | | | | | |
| 63 | 81. | | 0. | 140. | 145. |
| 125 | 86. | | 0. | 146. | 150. |
| 250 | 92. | | 0. | 147. | 151. |
| 500 | 95. | | 0. | 144. | 149. |
| 1000 | 101. | | 0. | 141. | 152. |
| 2000 | 96. | | 0. | 139. | 147. |
| 4000 | 96. | | 0. | 136. | 143. |
| 8000 | 92. | | 0. | 129. | 136. |
| 16000 | 81. | | 0. | 121. | 125. |

CCNFIGURATION 30
VAR GEOM CONST DIA SWIRL DOME 0/0 CPEN DZ = 80
POWER SETTING 10
READING NO. 4E2

| | | MICROPHON | POSITION | | |
|--------------|-----|-------------|----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 62. | £2 . | 62. | 139. | 142. |
| 63 | 67. | 65. | 63. | 137. | 142. |
| 80 | 66. | 65. | 69. | 140. | 141. |
| 100 | 66. | 67. | 72. | 141. | 143. |
| 125 | 68. | 68. | 70. | 138. | 143. |
| 160 | 71. | 69. | 71. | 142. | 142. |
| 200 | 70. | 69. | 70. | 141. | 144. |
| 250 | 71. | 71. | 72. | 141. | 144. |
| 315 | 74. | 72. | 73. | 139. | 142. |
| 400 | 75. | 75. | 75. | 138. | 138. |
| 500 | 77. | 78. | 75. | 134. | 139. |
| 630 | 79. | 78. | 78. | 130. | 139. |
| 800 | 79. | 78. | 78. | 130. | 140. |
| 1000 | 82. | £3 • | 80. | 132. | 148. |
| 1250 | 78. | 78. | 77. | 131. | 145. |
| 1600 | 77. | 76. | 75. | 131. | 138. |
| 2000 | 74. | 75. | 75. | 130. | 139. |
| 2500 | 73. | 74. | 73. | 129. | 136. |
| 3150 | 74. | 73. | 72. | 129. | 132. |
| 4000 | 76. | 76. | 73. | 125. | 133. |
| 5000 | 73. | 71. | 70- | 124. | 130. |
| 6300 | 71. | 69. | 66. | 122. | 126. |
| 8000 | 70. | 68. | 65. | 121. | 124. |
| 10000 | 66. | 65. | 62. | 118. | 121. |
| 12500 | 62. | 62. | 59. | 116. | 117. |
| 16000 | 58. | 58. | 54. | 113. | 115. |
| 20000 | 54. | 53. | 49. | 110. | 113. |
| | | | | | |
| OCTAVE FREQ | | | | | |
| 63 | 70. | 69. | 71. | 144. | 146. |
| 125 | 74. | 73. | 76. | 145. | 147. |
| 250 | 77. | 76. | 77. | 145. | 148. |
| 500 | 82. | 82. | 81. | 140. | 143. |
| 1000 | 85. | E5 . | 83. | 136. | 150. |
| 2000 | 80. | 80. | 79. | 135. | 143. |
| 4000 | 79. | 79. | 77. | 131. | 137. |
| 8000 | 74. | 72. | 69. | 125. | 129. |
| 16000 | 64. | 64. | 61. | 118. | 120. |

CONFIGURATION 30
VAR GEOM CONST DIA SWIRL DOME 0/0 CFEN DZ = 80
POWER SETTING 25
READING NO. 487

| | | MICROPHONE | POSITION | | |
|--------------|------------|-------------|----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 63. | 63 . | 64. | 137. | 147. |
| 63 | 66. | 66. | 67. | 136. | 146. |
| 80 | 65. | 66. | 67. | 137. | 146. |
| 100 | 67. | 69. | 72. | 139. | 149. |
| 125 | 68. | 70. | 72. | 138. | 150. |
| 160 | 70. | 70. | 71. | 141. | 148. |
| 200 | 70. | 71. | 69. | 138. | 150. |
| 250 | 71. | 72. | 72. | 139. | 152. |
| 315 | 74. | 73. | 75. | 141. | 151. |
| 400 | 75. | 74. | 75. | 139. | 147. |
| 500 | 77. | .09 | 77. | 136. | 148. |
| 630 | 79. | .08 | 80. | 131. | 146. |
| 800 | 79. | 79. | 79. | 131. | 149. |
| 1000 | 83. | 82. | 83. | 134. | 153. |
| 1250 | 83. | 83. | 84. | 133. | 157. |
| 1600 | 79. | 78. | 79. | 133. | 147. |
| 2000 | £5. | 86. | 87. | 132. | 147. |
| 2500 | 80. | £2. | 82. | 131. | 147. |
| 3150 | 80. | .03 | 82. | 131. | 143. |
| 4000 | 80. | £1. | 85. | 128. | 143. |
| 5000 | 77. | 76. | 78. | 125. | 142. |
| 6300 | 74. | 73. | 73. | 123. | 136. |
| 8000 | 73. | 72. | 70. | 123. | 134. |
| 10000 | 68. | 68. | 68. | 118. | 129. |
| 12500 | 64. | 64. | 65. | 116. | 124. |
| 16000 | 59. | 59. | 60. | 111. | 122. |
| 20000 | 53. | 53. | 54. | 109. | 115. |
| OCTAVE FREQ | | | | | |
| 63 | 70. | 70. | 71. | 141. | 151. |
| 125 | 73. | 74. | 76. | 144. | 154. |
| 250 | 77. | 77. | 77. | 144. | 156. |
| 500 | 82. | 84. | 83. | 141. | 152. |
| 1000 | 87. | 86. | 87. | 138. | 159. |
| 2000 | 87. | 88. | 89. | 137. | 152. |
| 4000 | 84. | 84. | 87. | 133. | 147. |
| 8000 | 77. | 76. | 7.6. | 127. | 139. |
| 16000 | 65. | 65. | 66. | 118. | 126. |

CONFIGURATION 21
VAR GEOM CONST DIA SWIRL DCME 0/C CPEN DZ = 100
PUWER SETTING 10
READING NO. 481

| | | MICROPHO | NE POSITIO | ٨ | |
|--------------|-----|------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 62. | €2. | 53. | 137. | 142. |
| 63 | 67. | 66. | 57. | 135. | 141. |
| 80 | 65. | 66. | 61. | 137. | 141. |
| 100 | 65. | 68. | 63. | 140. | 143. |
| 125 | 68. | 65. | 61. | 137. | 141. |
| 160 | 72. | 65. | 62. | 141. | 142. |
| 200 | 72. | 71. | 62. | 141. | 144. |
| 250 | 70. | 72. | 62. | 139. | 143. |
| 315 | 75. | 73. | 63. | 137. | 141. |
| 400 | 75. | 75. | 64. | 138. | 139. |
| 500 | 76. | 78. | 65. | 134. | 139. |
| 630 | 78. | 77. | 67. | 130. | 139. |
| 8Q O | 77. | 77. | 68. | 130. | 140. |
| 1000 | 81. | 85. | 70. | 131. | 150. |
| 1250 | 79. | 81. | 68. | 131. | 146. |
| 1600 | 77. | 75. | 65. | 131. | 138. |
| 2000 | 75. | 74. | 64. | 130. | 138. |
| 2500 | 74. | 73. | 63. | 129. | 137. |
| 3150 | 73. | 73. | 62. | 129. | 133. |
| 4000 | 76. | 75. | 63. | 125. | 133. |
| 5000 | 73. | 72. | 60. | 124. | 131. |
| 6300 | 71. | 69. | 57. | 121. | 127. |
| 8000 | 70. | 69. | 55. | 120. | 125. |
| 10000 | 66. | 65. | 52. | 116. | 121. |
| 12500 | 62. | 61. | 49. | 115. | 118. |
| 16000 | 57. | 57. | 46. | 111. | 116. |
| 20000 | 54. | 53. | 44. | 110. | 113. |
| OCTAVE FREQ | | | | | |
| 63 | 70. | 70. | 63. | 141. | 146. |
| 125 | 74. | 73. | 67. | 144. | 147. |
| 250 | 78. | 77. | 67. | 144. | 148. |
| 500 | 81. | 82. | 70. | 140. | 144. |
| 1000 | 84. | 67. | 74. | 135. | 152. |
| 2000 | 80. | 75. | 69. | 135. | 142. |
| 4000 | 79. | 78. | 67. | 131. | 137. |
| 8000 | 74. | 73. | 60. | 124. | 130. |
| 16000 | 64. | 63. | 52. | 117. | 121. |
| | - | - | | | |

CONFIGURATION 32
PLUG FLOW/CANTED PRIMARY INITIAL CESIGN
POWER SETTING 10
READING NO. 458

| | | MICROPHONE | PESITION | | |
|--------------|-----|------------|----------|------|-------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 63. | 66. | 0. | 136. | 140. |
| 63 | 67. | 74. | 0. | 136. | 140. |
| 80 | 64. | 67. | 0. | 141. | 142. |
| 100 | 63. | 69. | 0. | 143. | 145. |
| 125 | 67. | 70. | 0. | 139. | 145. |
| 160 | 71. | 72. | 0. | 141. | 143. |
| 200 | 70. | 72. | 0. | 137. | 143. |
| 250 | 69. | 72. | 0. | 139. | 144. |
| 315 | 74. | 73. | 0. | 141. | 145. |
| 400 | 75. | 75. | u. | 142. | 140. |
| 500 | 75. | 77. | 0. | 137. | 142. |
| 630 | 77. | 78. | 0. | 132. | 141. |
| 800 | 78. | 78. | 0. | 133. | 141. |
| 1000 | 81. | 80. | 0. | 136. | 146. |
| 1250 | 76. | 76. | 0. | 131. | 141. |
| 1600 | 76. | 76. | 0. | 131. | 139. |
| 2000 | 76. | 76. | 0. | 130. | 141. |
| 2500 | 76. | 77. | 0. | 129. | 136. |
| 3150 | 82. | e7. | 0. | 129. | 134. |
| 4000 | 86. | 91. | 0. | 126. | 134. |
| 5000 | 75. | 77. | 0. | 124. | .132. |
| 6300 | 74. | 79. | 0. | 121. | 126. |
| 8000 | 76. | 83. | 0. | 120. | 124. |
| 10000 | 67. | 73. | 0. | 116. | 121. |
| 12500 | 65. | 70. | 0. | 114. | 118. |
| 16000 | 64. | 68. | 0. | 111. | 117. |
| 20000 | 57. | 62. | 0. | 110. | 113- |
| | | | | | |
| OCTAVE FREQ | | | | | |
| 63 | 70. | 75. | 0. | 143. | 146. |
| 125 | 72. | 75. | 0. | 146. | 149. |
| 250 | 76. | 77. | 0. | 144. | 149. |
| 500 | 81. | 82. | 0. | 144. | 146. |
| 1000 | 84. | 83. | 0. | 139. | 148. |
| 2000 | 81. | 81. | 0. | 135. | 144. |
| 4000 | 88. | 93. | 0. | 132. | 138. |
| 8000 | 78. | E5. | 0. | 124. | 129. |
| 16000 | 68. | 73. | 0. | 117. | 121. |

CONFIGURATION 32
PLUG FLOW/CANTED PRIMARY INITIAL DESIGN
POWER SETTING 25
READING NO. 459

| | | MICROPHO | NE PCSITIC | N | |
|--------------|-------|--------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 63. | 67. | o. | 137. | 140. |
| 63 | 67. | 74. | 0. | 136. | 139. |
| 80 | 64. | 67. | 0. | 141. | 141. |
| 100 | 65. | 68. | 0. | 145. | 143. |
| 125 | 67. | 70. | 0. | 142. | 145. |
| 160 | 70. | 71. | 0. | 143. | 142. |
| 200 | 71. | 72. | 0. | 139. | 142. |
| 250 | 70. | 72. | 0. | 141. | 143. |
| 315 | 74. | 75. | 0. | 143. | 144. |
| 400 | 76. | 74. | 0. | 144. | 141. |
| 500 | 77. | 78. | 0. | 141- | 143. |
| 630 | 78. | 78. | 0. | 134. | 141. |
| 800 | 78. | 79. | 0- | 135. | 141. |
| 1000 | 83. | e 6 • | 0. | 139. | 144. |
| 1250 | 80. | e3 . | 0. | 134. | 142. |
| 1600 | 79. | 79. | 0. | 133. | 139. |
| 2000 | 77. | 77. | 0. | 132. | 139. |
| 2500 | 78. | 78. | 0. | 131. | 137. |
| 3150 | 79. | .03 | 0. | 131. | 134. |
| 4000 | 86. | 88. | 0. | 129. | 134. |
| 5000 | 76. | 78. | 0. | 125. | 133. |
| 6300 | 74. | 75. | 0. | 122. | 127. |
| 8000 | 76. | E6. | 0• | 122. | 125. |
| 10000 | 68. | 71. | 0. | 117. | 119. |
| 12500 | 69. | 72. | 0. | 116. | 118. |
| 16000 | 65. | 69. | 0. | 112. | 115. |
| 20000 | 56. | €2. | 0. | 110. | 113. |
| OCTAVE FREQ | | | | | |
| 63 | 70. | 75. | 0. | 143. | 145. |
| 125 | 73. | 75. | 0. | 148. | 148. |
| 250 | 77. | 78. | 0. | 146. | 148. |
| 500 | 82. | 82. | 0. | 146. | 147. |
| 1000 | 86. | 88. | 0. | 141. | 147. |
| 2000 | 83. | £3. | 0. | 137. | 143. |
| 4000 | 87. | 89. | 0. | 134. | 138. |
| 8000 | 79. | 86. | 0. | 126. | 130. |
| 16000 | 71. | 74. | 0. | 118. | 121. |
| | • • • | | • | | |

CONFIGURATION 33 TANGENTIAL SWIRL POWER SETTING 10 READING NO. 528

| | | MICROPHEN | E PCSITION | | |
|--------------|-----|------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 72. | 74. | 0. | 137. | 153. |
| 63 | 73. | 74. | 0. | 136. | 153. |
| 80 | 71. | 74. | 0. | 139. | 152. |
| 100 | 72. | 74. | 0. | 142. | 154. |
| 125 | 72. | 73. | 0. | 140. | 154. |
| 160 | 74. | 74. | 0. | 142. | 153. |
| 200 | 71. | 71. | 0. | 138. | 153. |
| 250 | 71. | 72. | 0. | 138. | 154. |
| 315 | 74. | 75. | 0. | 140. | 154. |
| 400 | 75. | 75. | 0. | 138. | 151. |
| 500 | 76. | 76. | 0. | 133. | 152. |
| ر ۲۵ | 78. | 79. | 0. | 130. | 151. |
| | 76. | 77. | 0. | 131. | 152. |
| ٠.٠٠٠ | 79. | ٤0. | 0. | 131. | 160. |
| 1250 | 81. | 81. | 0. | 131. | 160. |
| 1600 | 78. | 79. | 0. | 131. | 150. |
| 2000 | 75. | 76. | 0. | 130. | 149. |
| 2500 | 74. | 75. | 0. | 130. | 147. |
| 3150 | 76. | 75. | 0. | 129. | 144. |
| 4000 | 77. | 78. | 0. | 125. | 144. |
| 5000 | 76. | 74. | 0. | 124. | 143. |
| 6300 | 72. | 71. | 0. | 120. | 138. |
| 8000 | 69. | 70. | 0- | 119. | 134. |
| 10000 | 64. | 65. | 0. | 114. | 130. |
| 12500 | 58. | 60. | 0. | 112. | 126. |
| 16000 | 54. | 55. | 0. | 109. | 125. |
| 20000 | 52. | 51. | 0. | 109. | 123. |
| 007445 5050 | | | | | |
| OCTAVE FREQ | - | 3.0 | • | 143 | 1.53 |
| 63 | 77. | 75. | 0. | 142. | 157. |
| 125 | 78• | 78. | 0. | 146. | 158. |
| 250 | 77. | 78. | 0. | 144. | 158. |
| 500 | 81. | E2. | 0. | 140. | 156. |
| 1000 | 84. | 64. | 0. | 136. | 163. |
| 2000 | 81. | 62. | 0- | 135. | 154. |
| 4000 | 81. | 81. | 0. | 131. | 148. |
| 8000 | 74. | 74. | 0. | 123. | 140. |
| 16000 | 60. | 62. | 0. | 115. | 130. |

CONFIGURATION 33
TANGENTIAL SWIRL
POWER SETTING 25
READING NO. 520

| | | MICROPHENE | PCSITION | | |
|--------------|-----|-------------|----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 73. | 74. | 0. | 141. | 145. |
| 63 | 74. | 75. | 0. | 137. | 143. |
| 80 | 71. | 71. | 0- | 139. | 142. |
| 100 | 09. | 70. | 0. | 144. | 146. |
| 125 | 70. | 70. | 0. | 143. | 147. |
| 160 | 70. | 72. | 0. | 143. | 144. |
| 200 | 71. | 71. | 0. | 140. | 146. |
| 250 | 71. | 72. | 0. | 139. | 146. |
| 315 | 73. | 75. | 0. | 141. | 147. |
| 400 | 74. | 75. | 0. | 140. | 143. |
| 500 | 76. | 77. | 0. | 136. | 144. |
| 630 | 78. | 78. | 0. | 131. | 143. |
| 800 | 78. | 75. | 0. | 131. | 144. |
| 1000 | 82. | £2. | 0. | 133. | 148. |
| 1250 | 89. | 88. | 0. | 132. | 155. |
| 1600 | 79. | 75. | 0. | 132. | 142. |
| 2000 | 78. | 78. | 0. | 132. | 141. |
| 2500 | 76. | 77. | U. | 131. | 139. |
| 3150 | 77. | 78. | 0. | 131. | 136. |
| 4000 | 79. | 75. | 0. | 127. | 138. |
| 5000 | 77. | 77. | 0. | 125. | 135. |
| 6300 | 74. | 74. | 0. | 123. | 131. |
| 8000 | 71. | 72. | 0. | 121. | 127. |
| 10000 | 66. | 68. | 0. | 116. | 123. |
| 12500 | 62. | 64. | 0. | 114. | 123. |
| 16000 | 57. | 60. | 0. | 110. | 122. |
| 20000 | 53. | 54. | 0. | 109. | 122. |
| | | | | | |
| OCTAVE FREQ | | | | | |
| 63 | 78. | 78. | 0. | 144. | 148. |
| 125 | 74. | 76. | 0. | 148. | 151. |
| 250 | 77. | 78. | U. | 145. | 151. |
| 500 | 81. | 82. | 0. | 142. | 148. |
| 1000 | 90. | 89. | 0. | 137. | 156. |
| 2000 | 83. | 83. | 0. | 136. | 146. |
| 4000 | 83. | £3 . | 0. | 133. | 141. |
| 8000 | 76. | 77. | 0. | 126. | 133. |
| 16000 | 64. | 66. | 0. | 116. | 127. |

CONFIGURATION 34
CONST DIA SWIRL DOME
POWER SETTING 75
READING NO. 554

| | | MICROPHO | NE PCSITIC | : N | |
|--------------|-----|-------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 62. | €2. | 62. | 139. | 145. |
| 63 | 66. | 66. | 68. | 138. | 145. |
| 80 | 60. | 61. | 60. | 142. | 146. |
| 100 | 61. | 61. | 62. | 145. | 148. |
| 125 | 67. | 66. | 67. | 143. | 148. |
| 160 | 66. | 68. | 65. | 145. | 147. |
| 200 | 68. | 68. | 66. | 142. | 148. |
| 250 | 67. | .83 | 67. | 140. | 148. |
| 315 | 69. | 72. | 69. | 141. | 148. |
| 400 | 69. | 71. | 69. | 140. | 146. |
| 500 | 70. | 71. | 72. | 141. | 147. |
| 630 | 72. | 72. | 72. | 135. | 146. |
| 800 | 71. | 72. | 71. | 134. | 146. |
| 1000 | 72. | 74. | 73. | 136. | 146. |
| 1250 | 85. | 65. | 86. | 140. | 152. |
| 1600 | 74. | 75. | 75. | 136. | 146. |
| 2000 | 73. | 75. | 73. | 135. | 145. |
| 2500 | 74. | 79. | 75. | 134. | 145. |
| 3150 | 72. | 74. | 72. | 133. | 141. |
| 4000 | 72. | 74. | 72. | 132. | 139. |
| 5000 | 72. | 73. | 72. | 126. | 138. |
| 6300 | 69. | 72. | 70. | 127. | 136. |
| 8000 | 65. | 74. | 69. | 124. | 131. |
| 10000 | 64. | 67. | 67. | 120. | 128. |
| 12500 | 61. | 64. | 66. | 117. | 126. |
| 16000 | 58. | 60. | 63. | 112. | 124. |
| 20000 | 54. | 54. | 57. | 110. | 122. |
| OCTAVE FREQ | | | | | |
| 63 | 68. | 66. | 69. | 145. | 150. |
| 125 | 70. | 71. | 70. | 149. | 152. |
| 250 | 73. | 75. | 72. | 146. | 153. |
| 500 | 75. | 76. | 76. | 144. | 151. |
| 1000 | 85. | 86. | 86. | 142. | 154. |
| 2000 | 78. | e2 . | 79. | 140. | 150. |
| 4000 | 77. | 78. | 77. | 136. | 144. |
| 8000 | 73. | 77. | 74. | 129. | 138. |
| 16000 | 63. | 66. | 68. | 119. | 129. |

CONFIGURATION 34 CONST DIA SWIRL DCME POWER SETTING 100 READING NO. 555

| | | MICROPHO | NE PCSITIC | : N | |
|--------------|------------|-------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 73. | 73. | 72. | 140. | 144. |
| 63 | 77. | 77. | 79. | 138. | 144. |
| 80 | 71. | 72. | 70. | 141. | 146. |
| 100 | 71. | 71. | 72. | 144. | 148. |
| 125 | 76. | 76. | 78. | 143. | 147. |
| 160 | 75. | 78. | 75. | 144. | 148. |
| 200 | 77. | 78. | 77. | 143. | 148. |
| 250 | 77. | 79. | 79. | 141. | 148. |
| 315 | 81. | 82. | 79. | 141. | 149. |
| 400 | 79. | 81. | 79. | 141. | 148. |
| 500 | 80. | e1. | 81. | 142. | 148. |
| 630 | 82. | 83. | 82. | 135. | 148. |
| 800 | 81. | 82. | 81. | 135. | 148. |
| 1000 | 82. | E3 . | 82. | 137. | 148. |
| 1250 | 92. | 55 . | 93. | 138. | 154. |
| 1600 | 86. | £7. | 87. | 137. | 149. |
| 2000 | 83. | 84. | 84. | 137. | 147. |
| 2500 | 66. | 86. | 84. | 135. | 147. |
| 3150 | 83. | E4. | 82. | 133. | 143. |
| 4000 | 83. | 84. | 83. | 132. | 142. |
| 5000 | 83. | E4 • | 83. | 126. | 140. |
| 6300 | 80• | 82. | 81. | 128. | 139. |
| 8000 | 78. | 80. | 80. | 123. | 133. |
| 10000 | 76. | 79. | 79. | 119. | 129. |
| 12500 | 74. | 77. | 77. | 117. | 128. |
| 16000 | 71. | 73. | 74. | 113. | 124. |
| 20000 | 66. | 67. | 68. | 110. | 123. |
| OCTAVE FREQ | | | | | |
| 63 | 79. | 79. | 80. | 145. | 150. |
| 125 | 79. | E1. | 80. | 148. | 152. |
| 250 | 84. | 85. | 83. | 147. | 153. |
| 500 | 85. | e7. | 86. | 145. | 153. |
| 1000 | 54. | 55. | 94. | 142. | 156. |
| 2000 | 90. | 51. | 90. | 141. | 153. |
| 4000 | 88. | 89. | ٤7. | 136. | 147. |
| 8000 | 83. | ٤5. | £5. | 130. | 140. |
| 16000 | 76. | 79. | 79. | 119. | 130. |

CONFIGURATION 35
DELAYED QUENCH
POWER SETTING 10
READING NO. 569

| | | MICROPHO | NE POSITIO | 'n | |
|--------------|-----|------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 79. | 68. | 71. | 139. | 151. |
| 63 | 80. | 67. | 70. | 138. | 151. |
| 80 | 83. | 65. | 70. | 143. | 153. |
| 100 | 83. | 70. | 71. | 144. | 154. |
| 125 | 82. | 70. | 70. | 139. | 153. |
| 160 | 81. | 73. | 70. | 141. | 152. |
| 200 | 82. | 73. | 69. | 137. | 153. |
| 250 | 82. | 72. | 70. | 137. | 152. |
| 315 | 81. | 76. | 72. | 138. | 152. |
| 400 | 80. | 77. | 73. | 139. | 151. |
| 500 | 82. | 76. | 75. | 134. | 153. |
| 630 | 81. | .09 | 75. | 131. | 152. |
| 800 | 82. | EG. | 75. | 133. | 153. |
| 1000 | 81. | 79. | 75. | 133. | 151. |
| 1250 | 81. | 77. | 71. | 132. | 151. |
| 1600 | 80. | 78. | 73. | 132. | 151. |
| 2000 | 75. | 76. | 72. | 131. | 150. |
| 2500 | 78. | 76. | 72. | 130. | 149. |
| 3150 | 76. | 77. | 72. | 129. | 147. |
| 4000 | 75. | 77. | 72. | 126. | 146. |
| 5000 | 72. | 75. | 69. | 125. | 144. |
| 6300 | 68. | 73. | 67. | 122. | 140. |
| 8000 | 64. | 69. | 65. | 119. | 135. |
| 10000 | 60. | £5. | 63. | 116. | 132. |
| 12500 | 56. | €2. | 61. | 113. | 128. |
| 16000 | 54. | 57. | 57. | 110. | 126. |
| 20000 | 52. | 52. | 53. | 109. | 123. |
| OCTAVE FREQ | | | | | |
| 63 | 86. | 73. | 75. | 145. | 157. |
| 125 | 67. | 75. | 75. | 147. | 158. |
| 250 | 86. | 75. | 75. | 142. | 157. |
| 500 | 86. | 83. | 79. | 141. | 157. |
| 1000 | 86. | 64. | 79. | 137. | 157. |
| 2000 | 84. | 82. | 77. | 136. | 155. |
| 4000 | 79. | 81. | 76. | 132. | 151. |
| 8000 | 70. | 75. | 70. | 124. | 142. |
| 16000 | 59. | 64. | 63. | 116. | 131. |

CONFIGURATION 35 DELAYED QUENCH POWER SETTING 25 READING NO. 570

| | | MICROPHO | NE POSITION | | |
|--------------|---------------|------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 82. | 66. | 65. | 139. | 141. |
| 63 | 80. | 68. | 69. | 137. | 142. |
| 80 | 84. | 67. | 67. | 143. | 144. |
| 100 | £5. | 68. | 70. | 146. | 145. |
| 125 | 84. | 69. | 71. | 140. | 144. |
| 160 | 83. | 71. | 71. | 143. | 143. |
| 200 | 83. | 72. | 71. | 138. | 144. |
| 250 | 83. | 70. | 73. | 139. | 145. |
| 315 | 83. | 73. | 74. | 139. | 144. |
| 400 | 82. | 75. | 76. | 141. | 143. |
| 500 | 83. | 74. | 77. | 137. | 144. |
| 630 | 83. | 77. | 78. | 132. | 144. |
| 800 | 83. | 77. | 79. | 132. | 144. |
| 1000 | 83. | 76. | 77. | 134. | 144. |
| 1250 | 83. | 74. | 75. | 133. | 144. |
| 1600 | 83. | 75. | 76. | 132. | 144. |
| 2000 | 82. | 74. | 77. | 132. | 143. |
| 2500 | 80. | 74. | 76. | 131. | 141. |
| 3150 | 78. | 75. | 76. | 130. | 139. |
| 4000 | 77. | 76. | 77. | 127. | 138. |
| 5000 | 75. | 75. | 74. | 125. | 136. |
| 6300 | 72. | 72. | 72. | 125. | 132. |
| 8000 | 67. | 69. | 69. | 121. | 128. |
| 10000 | 63. | 65. | 67. | 117. | 123. |
| 12500 | 59. | 64. | 64. | 114. | 120. |
| 16000 | 56. | £0. | 61. | 111. | 117. |
| 20000 | 53. | 54. | 56. | 110. | 114. |
| | \ > | | | | |
| OCTAVE FREQ | , | | | | |
| 63 | 87. | 72. | 72. | 145. | 147. |
| 125 | 89. | 74. | 75. | 148. | 149. |
| 250 | 88. | 77. | 78. | 143. | 149. |
| 500 | 87. | eo. | 82. | 143. | 148. |
| 1000 | 88. | e1. | 82. | 138. | 149. |
| 2000 | 87. | 79. | 81. | 136. | 148. |
| 4000 | 82. | 80. | 81. | 133. | 143. |
| 8000 | 74. | 74. | 75. | 127. | 134. |
| 16000 | 61. | 66. | 66. | 117. | 122. |

CONFIGURATION 35 DELAYED QUENCH POWER SETTING 40 READING NO. 571

| | | MICROPHO | ME POSITIO | Ň | |
|--------------|-------------|-------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 66. | 68. | 70. | 141. | 143. |
| 63 | 74. | 77. | 77. | 139. | 142. |
| 80 | 65. | 65. | 67. | 145. | 146. |
| 100 | 67. | 67. | 69. | 147. | 147. |
| 125 | 73. | 72. | 72. | 143. | 146. |
| 160 | 73. | 73. | 72. | 143. | 145. |
| 200 | 73. | 72. | 71. | 140. | 146. |
| 250 | 74. | 75. | 73. | 141. | 146. |
| 315 | 79. | 77. | 76. | 141. | 145. |
| 400 | 79. | 77. | 76. | 142. | 145. |
| 500 | 78. | 79. | 77. | 139. | 146. |
| 630 | 82. | e2. | 79. | 133. | 146. |
| 800 | 81. | 81. | 78. | 133. | 147. |
| 1000 | 80. | .0 8 | 78. | 136. | 145. |
| 1250 | 79. | 7e. | 76. | 134. | 145. |
| 1600 | 80. | 79. | 77. | 134. | 145. |
| 2000 | 80. | .03 | 78. | 134. | 145. |
| 2500 | 81. | €3. | 81. | 133. | 143. |
| 3150 | 80. | 79. | 77. | 132. | 141. |
| 4000 | 80. | 75. | 77. | 130. | 140. |
| 5000 | .08 | 75. | 76. | 127. | 139. |
| 6300 | 75. | 75. | 73. | 127. | 135. |
| 8000 | 73. | 73. | 70. | 123. | 130. |
| 10000 | 69. | 70. | 68. | 120. | 125. |
| 12500 | 66. | 66. | 66. | 116. | 122. |
| 16000 | 62. | 63. | 62. | 111. | 118. |
| 20000 | 56. | 56. | 57. | 109. | 114. |
| OCTAVE FREQ | | | | | |
| 63 | 75. | 78. | 78. | 147. | 149. |
| 125 | 77. | 76. | 76. | 150. | 151. |
| 250 | 81. | 80. | 79. | 145. | 150. |
| 500 | 85. | 85. | 82. | 144. | 150. |
| 1000 | 85. | 85. | 82. | 139. | 151. |
| 2000 | 85. | 86. | 84. | 138. | 149. |
| 4000 | £5 . | 64. | 81. | 135. | 145. |
| 8000 | 78. | 78. | 76. | 129. | 137. |
| 16000 | 68. | 68. | 68. | 118. | 124. |

CONFIGURATION 35 DELAYED QUENCH POWER SETTING 55 READING NJ. 572

| 50 | 1/3 JCT FREQ | 1 | | | | 5 |
|---|--------------|-----|-------------|------------|------|------|
| 80 66. 65. 65. 147. 148. 100 68. 68. 62. 68. 150. 148. 125 72. 73. 74. 144. 147. 160 74. 74. 73. 145. 147. 200 74. 73. 74. 142. 147. 250 75. 76. 77. 140. 147. 315 79. 78. 78. 142. 147. 400 75. 75. 78. 143. 146. 500 78. 80. 80. 80. 134. 148. 800 81. 82. 82. 81. 134. 148. 1000 80. 80. 80. 80. 137. 147. 1250 75. 75. 78. 78. 143. 147. 1250 75. 75. 78. 134. 148. 1000 80. 80. 80. 80. 135. 147. 2000 80. 80. 80. 80. 135. 147. 2000 80. 80. 80. 135. 147. 2000 80. 80. 80. 135. 147. 2000 80. 80. 80. 135. 147. 2000 80. 80. 80. 135. 147. 2000 80. 80. 80. 135. 146. 2500 82. 84. 92. 134. 145. 3150 80. 75. 79. 133. 142. 4000 80. 80. 75. 79. 133. 142. 4000 80. 80. 75. 78. 128. 140. 6300 77. 77. 77. 75. 129. 137. 8000 74. 74. 73. 124. 132. 1000 71. 72. 71. 121. 128. 12500 68. 65. 65. 66. 119. 123. 20000 58. 57. 59. 119. 122. OCT AVE FREQ 63 75. 76. 78. 150. 151. 125 77. 77. 77. 77. 152. 152. 250 61. 81. 81. 146. 152. 500 85. 65. 65. 145. 152. 1000 85. 65. 65. 65. 140. 152. 2000 86. 67. 67. 68. 139. 151. 4000 85. 65. 65. 66. 139. 151. 4000 85. 65. 65. 66. 139. 151. 4000 85. 65. 65. 66. 139. 151. | | | | | | |
| 80 66. 65. 65. 147. 148. 100 68. 68. 68. 150. 148. 125 72. 73. 74. 144. 147. 160 74. 74. 73. 145. 147. 200 74. 73. 74. 142. 147. 250 75. 76. 77. 140. 147. 315 79. 78. 142. 147. 400 75. 75. 78. 143. 146. 500 78. 80. 80. 80. 141. 147. 630 82. 62. 81. 134. 148. 800 61. 62. 81. 134. 148. 1000 80. 80. 80. 80. 137. 147. 1250 75. 75. 78. 143. 147. 1250 75. 75. 78. 135. 147. 2000 80. 80. 80. 80. 135. 147. 2000 80. 80. 80. 135. 147. 2000 80. 80. 80. 135. 147. 2000 80. 80. 80. 135. 147. 2000 80. 80. 80. 135. 147. 2000 80. 80. 80. 135. 146. 2500 82. 64. 92. 134. 145. 3150 80. 75. 79. 133. 142. 4000 80. 80. 75. 79. 130. 141. 5000 80. 75. 78. 128. 140. 6300 77. 77. 75. 129. 137. 8000 77. 77. 75. 129. 137. 8000 77. 77. 77. 75. 129. 137. 8000 77. 77. 77. 75. 129. 137. 8000 77. 77. 77. 75. 129. 137. 8000 77. 77. 77. 75. 129. 137. 8000 77. 77. 77. 75. 129. 137. 8000 77. 77. 77. 75. 129. 137. 8000 77. 77. 77. 75. 129. 137. 8000 77. 77. 77. 75. 129. 137. 8000 77. 77. 77. 75. 129. 137. 8000 77. 77. 77. 75. 129. 137. 8000 77. 77. 77. 75. 129. 137. 8000 77. 77. 77. 75. 129. 137. 8000 74. 74. 73. 124. 132. 9000 58. 57. 59. 119. 122. GCT AVE FREQ 63 75. 76. 78. 150. 151. 125 77. 77. 77. 77. 152. 152. 250 61. 61. 61. 81. 146. 152. 2000 65. 65. 65. 66. 139. 151. 4000 65. 65. 65. 66. 139. 151. 4000 65. 65. 65. 66. 139. 151. | 63 | 74. | 75. | 77. | 143. | 144. |
| 125 | | | | 65. | 147. | |
| 125 | 100 | 68. | 68. | 68. | 150. | 148. |
| 160 | | 72. | | 74. | 144. | |
| 250 75. 76. 77. 140. 147. 315 79. 78. 78. 142. 147. 400 75. 75. 78. 143. 146. 500 78. 80. 80. 80. 141. 147. 630 82. 82. 81. 134. 148. 800 81. 82. 81. 134. 148. 1000 80. 80. 80. 137. 147. 1250 75. 75. 78. 135. 147. 1600 80. 80. 80. 80. 135. 147. 1600 80. 80. 80. 80. 135. 147. 2000 80. 80. 80. 80. 135. 147. 2000 82. 84. 82. 134. 145. 3150 80. 75. 79. 133. 142. 4000 80. 80. 77. 79. 133. 142. 4000 80. 80. 77. 79. 133. 142. 4000 80. 80. 79. 130. 141. 5000 80. 77. 77. 75. 129. 137. 8000 77. 77. 77. 75. 129. 137. 8000 74. 74. 73. 124. 132. 10000 71. 72. 71. 121. 128. 12500 68. 65. 69. 121. 126. 16000 64. 65. 66. 119. 123. 20000 58. 57. 59. 119. 122. | 160 | 74. | 74. | 73. | 145. | 147. |
| 250 75. 76. 77. 140. 147. 315 79. 78. 78. 142. 147. 400 75. 75. 78. 143. 146. 500 78. 80. 80. 80. 141. 147. 630 82. 82. 81. 134. 148. 800 81. 82. 81. 134. 148. 1000 80. 80. 80. 137. 147. 1250 75. 75. 78. 135. 147. 1600 80. 80. 80. 80. 135. 147. 2000 80. 80. 80. 80. 135. 147. 2000 80. 80. 80. 80. 135. 147. 2000 80. 80. 80. 135. 146. 2500 82. 84. 82. 134. 145. 3150 80. 75. 79. 133. 142. 4000 80. 80. 77. 79. 133. 142. 4000 80. 80. 77. 79. 133. 142. 1000 80. 80. 77. 78. 128. 140. 6300 77. 77. 75. 129. 137. 8000 74. 74. 74. 73. 124. 132. 10000 71. 72. 71. 121. 128. 12500 68. 65. 69. 121. 126. 16000 64. 65. 66. 119. 123. 20000 58. 57. 59. 119. 122. | 200 | 74. | 73. | 74. | 142. | 147. |
| 400 75. 75. 76. 78. 143. 146. 500 78. 80. 80. 80. 141. 147. 630 82. 82. 81. 134. 148. 800 81. 82. 81. 137. 147. 1250 75. 75. 78. 135. 147. 1600 80. 80. 80. 80. 135. 147. 1600 80. 80. 80. 80. 135. 147. 2000 80. 80. 80. 80. 135. 147. 2000 80. 80. 80. 80. 135. 146. 2500 83. 84. 82. 134. 145. 3150 80. 75. 79. 133. 142. 4000 80. 80. 75. 79. 133. 142. 4000 80. 80. 75. 78. 128. 140. 6300 77. 77. 75. 129. 137. 8000 74. 74. 74. 73. 124. 132. 10000 71. 72. 71. 121. 128. 12500 68. 65. 66. 119. 123. 20000 58. 57. 59. 119. 122. OCTAVE FREQ 63 75. 76. 78. 150. 151. 125. 250 81. 81. 81. 146. 152. 500 85. 85. 85. 85. 145. 152. 1000 85. 85. 85. 85. 140. 152. | 250 | 75. | 76. | 77. | 140. | 147. |
| 500 78. 80. 80. 141. 147. 630 82. 82. 81. 134. 148. 800 81. 82. 81. 134. 148. 1000 80. 80. 80. 80. 137. 147. 1250 79. 75. 78. 135. 147. 1600 80. 80. 80. 135. 147. 2000 80. 80. 80. 135. 147. 2000 80. 80. 80. 135. 146. 2500 83. 84. 82. 134. 145. 3150 80. 75. 79. 133. 142. 4000 80. 80. 79. 130. 141. 5000 80. 75. 78. 128. 140. 6300 77. 77. 77. 75. 129. 137. 8000 74. 74. 73. 124. 132. 10000 74. 74. 73. <t< td=""><td>315</td><td>79.</td><td>78.</td><td>78.</td><td>142.</td><td>147.</td></t<> | 315 | 79. | 78. | 78. | 142. | 147. |
| 630 82. 62. 81. 134. 148. 800 61. 82. 81. 134. 148. 1000 80. 80. 80. 137. 147. 1250 79. 75. 78. 135. 147. 1600 80. 80. 80. 80. 135. 147. 2000 80. 80. 80. 80. 135. 147. 2000 80. 80. 80. 135. 147. 2000 80. 80. 80. 135. 146. 2500 82. 84. 82. 134. 145. 3150 80. 75. 79. 133. 142. 4000 80. 80. 79. 130. 141. 5000 80. 75. 78. 128. 140. 6300 77. 77. 77. 75. 129. 137. 8000 74. 74. 74. 73. 124. 132. 1000 71. 72. 71. 121. 128. 12500 68. 65. 69. 121. 126. 16000 64. 65. 66. 119. 123. 20000 58. 57. 59. 119. 122. OCTAVE FREQ 63 75. 76. 78. 150. 151. 125 77. 77. 77. 77. 152. 152. 500 85. 65. 65. 140. 152. 500 85. 65. 65. 145. 152. 1000 85. 65. 65. 140. 152. | 400 | 75. | 79. | 78. | 143. | 146. |
| 800 | 500 | 78. | .08 | eo. | 141. | 147. |
| 1000 80. 80. 80. 137. 147. 1250 75. 75. 78. 135. 147. 1600 80. 80. 80. 135. 147. 2000 80. 80. 80. 135. 146. 2500 82. 84. 82. 134. 145. 3150 80. 75. 79. 133. 142. 4000 80. 80. 79. 130. 141. 5000 80. 75. 78. 128. 140. 6300 77. 77. 775. 129. 137. 8000 74. 74. 73. 124. 132. 10000 71. 72. 71. 121. 128. 12500 68. 69. 121. 126. 16000 64. 65. 66. 119. 123. 20000 58. 57. 59. 119. 122. CCTAVE FREQ 63 75. 76. 78. | 630 | 82. | £2 . | 81. | 134. | 148. |
| 1250 | 800 | ٤1. | | | 134. | 148. |
| 1600 80. 80. 80. 135. 147. 2000 80. 80. 80. 135. 146. 2500 82. 84. 82. 134. 145. 3150 80. 75. 79. 133. 142. 4000 80. 80. 79. 130. 141. 5000 80. 75. 78. 128. 140. 6300 77. 77. 77. 75. 129. 137. 8000 74. 74. 73. 124. 132. 10000 71. 72. 71. 121. 128. 12500 68. 69. 69. 121. 126. 16000 64. 65. 66. 119. 123. 20000 58. 57. 59. 119. 122. OCTAVE FREQ 63 75. 76. 78. 150. 151. 125 77. 77. 77. 77. 152. 152. 250 | | | | | | 147. |
| 2000 80. 80. 80. 135. 146. 2500 83. 84. 82. 134. 145. 3150 80. 75. 79. 133. 142. 4000 80. 80. 79. 130. 141. 5000 80. 75. 78. 128. 140. 6300 77. 77. 77. 75. 129. 137. 8000 74. 74. 74. 73. 124. 132. 10000 71. 72. 71. 121. 128. 12500 68. 65. 69. 121. 126. 16000 64. 65. 66. 119. 123. 20000 58. 57. 59. 119. 122. OCTAVE FREQ 63 75. 76. 78. 150. 151. 125 77. 77. 77. 77. 152. 152. 250 81. 81. 81. 146. 152. 500 85. 65. 65. 145. 152. 1000 85. 65. 65. 145. 152. 2000 86. 67. 66. 139. 151. 4000 85. 65. 65. 66. 139. 151. | | | | | | |
| 2500 82. 84. 82. 134. 145. 3150 80. 75. 79. 133. 142. 4000 80. 80. 79. 130. 141. 5000 80. 75. 78. 128. 140. 6300 77. 77. 77. 75. 129. 137. 8000 74. 74. 73. 124. 132. 10000 71. 72. 71. 121. 128. 12500 68. 65. 66. 119. 123. 20000 58. 57. 59. 119. 122. OCTAVE FREQ 63 75. 76. 78. 150. 151. 125 77. 77. 77. 77. 152. 152. 250 81. 81. 81. 146. 152. 500 85. 65. 85. 145. 152. 1000 85. 85. 85. 145. 152. 2000 86. 87. 88. 130. 151. | | | | | | |
| 3150 80. 75. 79. 133. 142. 4000 80. 80. 79. 130. 141. 5000 80. 75. 78. 128. 140. 6300 77. 77. 75. 129. 137. 8000 74. 74. 73. 124. 132. 10000 71. 72. 71. 121. 128. 12500 68. 65. 69. 121. 126. 16000 64. 65. 66. 119. 123. 20000 58. 57. 59. 119. 122. OCT AVE FREQ 63 75. 76. 78. 150. 151. 125 77. 77. 77. 77. 152. 152. 250 81. 81. 81. 146. 152. 500 85. 65. 65. 85. 145. 152. 1000 85. 65. 65. 65. 140. 152. 2000 86. 67 66. 139. 151. 4000 85. 65. 65. 66. 139. 151. | | | | | | |
| 4000 80. 80. 79. 130. 141. 5000 80. 75. 78. 128. 140. 6300 77. 77. 75. 129. 137. 8000 74. 74. 73. 124. 132. 10000 71. 72. 71. 121. 128. 12500 68. 65. 69. 121. 126. 16000 58. 57. 59. 119. 123. 20000 58. 57. 59. 119. 122. OCT AVE FREQ 63 75. 76. 78. 150. 151. 125 77. 77. 77. 152. 152. 250 81. 81. 81. 146. 152. 500 85. 65. 65. 145. 152. 1000 85. 65. 65. 145. 152. 1000 85. 65. 65. 145. 152. 2000 86. 67. 66. 139. 151. 4000 85. 84. 83. 136. 146. | | | | | | |
| 5000 80. 75. 78. 128. 140. 6300 77. 77. 75. 129. 137. 8000 74. 74. 73. 124. 132. 10000 71. 72. 71. 121. 128. 12500 68. 65. 69. 121. 126. 16000 64. 65. 66. 119. 123. 20000 58. 57. 59. 119. 122. OCTAVE FREQ 63 75. 76. 78. 150. 151. 125 77. 77. 77. 77. 152. 152. 250 81. 81. 81. 146. 152. 500 85. 65. 85. 85. 145. 152. 1000 85. 85. 85. 85. 145. 152. 2000 86. 87. 86. 139. 151. 4000 85. 86. 87. 86. 139. 151. | | | | | | |
| 6300 77. 77. 75. 129. 137. 8000 74. 74. 73. 124. 132. 10000 71. 72. 71. 121. 128. 12500 68. 65. 69. 121. 126. 16000 64. 65. 66. 119. 123. 20000 58. 57. 59. 119. 122. OCTAVE FREQ 63 75. 76. 78. 150. 151. 125 77. 77. 77. 152. 152. 250 81. 81. 81. 146. 152. 500 85. 65. 85. 85. 145. 152. 1000 85. 85. 85. 85. 145. 152. 2000 86. 87. 86. 139. 151. 4000 85. 86. 87. 88. 136. 146. | | | | | | |
| 8000 74. 74. 73. 124. 132. 10000 71. 72. 71. 121. 128. 12500 68. 69. 69. 121. 126. 16000 64. 65. 66. 119. 123. 20000 58. 57. 59. 119. 122. OCT AVE FREQ 63 75. 76. 78. 150. 151. 125 77. 77. 77. 152. 152. 250 61. 81. 81. 146. 152. 500 85. 65. 85. 145. 152. 1000 85. 65. 85. 145. 152. 2000 86. 67 66. 139. 151. 4000 85. 84. 83. 136. 146. | | | | | | |
| 10000 71. 72. 71. 121. 128. 12500 68. 69. 69. 121. 126. 16000 64. 65. 66. 119. 123. 20000 58. 57. 59. 119. 122. OCTAVE FREQ 63 75. 76. 78. 150. 151. 125 77. 77. 77. 152. 152. 250 61. 61. 81. 146. 152. 500 65. 65. 65. 145. 152. 1000 65. 65. 65. 65. 140. 152. 2000 86. 67 66. 139. 151. 4000 65. 84. 83. 136. 146. | | | | | | |
| 12500 | | | | | | |
| 16000 64. 65. 66. 119. 123. 20000 58. 57. 59. 119. 122. OCTAVE FREQ 63 75. 76. 78. 150. 151. 125 77. 77. 77. 152. 152. 250 81. 81. 146. 152. 250 85. 85. 85. 145. 152. 1000 85. 85. 85. 85. 145. 152. 2000 86. 87. 86. 139. 151. 4000 85. 85. 84. 83. 136. 146. | | | | | | |
| 20000 58. 57. 59. 119. 122. OCTAVE FREQ 63 75. 76. 78. 150. 151. 125 77. 77. 77. 152. 152. 250 81. 81. 81. 146. 152. 500 85. 85. 85. 145. 152. 1000 85. 85. 85. 140. 152. 2000 86. 87 86. 139. 151. 4000 85. 84. 83. 136. 146. | | | | | | |
| OCTAVE FREQ 63 75. 76. 78. 150. 151. 125 77. 77. 77. 152. 152. 250 81. 81. 146. 152. 500 85. 85. 85. 145. 152. 1000 85. 85. 85. 140. 152. 2000 86. 87. 86. 139. 151. 4000 85. 84. 83. 136. 146. | | | | | | |
| 63 75. 76. 78. 150. 151. 125 77. 77. 77. 152. 152. 250 £1. £1. 81. 146. 152. 500 £5. £5. £5. 145. 152. 1000 £5. £5. £5. 140. 152. 2000 £6. £7. £6. 139. 151. 4000 £5. £4. 83. 136. 146. | 20000 | 58. | 57. | 59. | 119. | 122. |
| 63 75. 76. 78. 150. 151. 125 77. 77. 77. 152. 152. 250 £1. £1. 81. 146. 152. 500 £5. £5. £5. 145. 152. 1000 £5. £5. £5. 140. 152. 2000 £6. £7. £6. 139. 151. 4000 £5. £4. 83. 136. 146. | OCTAVE EREO | | | | | |
| 125 77. 77. 77. 152. 152. 250 £1. £1. £1. £1. £2. 500 £5. £5. £5. £5. £5. £5. £5. £5. £6. £5. £6. £51. £6. <t< td=""><td></td><td>75.</td><td>76.</td><td>78.</td><td>150.</td><td>151.</td></t<> | | 75. | 76. | 78. | 150. | 151. |
| 250 | | | | | | |
| 500 85. 85. 85. 145. 152. 1000 85. 85. 85. 140. 152. 2000 86. 87 86. 139. 151. 4000 85. 84. 83. 136. 146. | | | | | | |
| 1000 85. 85. 85. 140. 152. 2000 86. 87. 86. 139. 151. 4000 85. 84. 83. 136. 146. | | | | | | |
| 2000 86. E7 E6. 139. 151. 4000 E5. E4. 83. 136. 146. | | | | | - | |
| 4000 85. 84. 83. 136. 146. | | | | | | |
| | | | | | | |
| UUUU (7a KUa (8a L31a 139a | 8000 | 79. | 80. | 78. | 131. | 139. |
| 16000 70. 71. 71. 125. 129. | | | - | | | |

CONFIGURATION 35
DELAYED QUENCH
POWER SETTING 75
READING NO. 573

| | | MICROPHE | NE POSITIO | N | |
|--------------|------------|-------------|------------|--------------|--------------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 67. | et. | 69. | 144. | 147. |
| 63 | 74. | 75. | 77. | 142. | 146. |
| 80 | 68. | 67. | 66. | 147. | 149. |
| 100 | 69. | 69. | 69. | 149. | 150. |
| 125 | 75. | 74. | 74. | 144. | 149. |
| 160 | 74. | 75. | 76. | 146. | 147. |
| 200 | 76. | 75. | 74. | 144. | 148. |
| 250 | 77. | 76. | 76. | 144. | 148. |
| 315 | 79. | 77. | 79. | 144. | 149. |
| 400 | 78. | 77. | 79. | 144. | 147. |
| 500 | 78. | .03 | 79. | 144. | 148. |
| 630 | 83. | 84. | 82. | 139. | 149. |
| 800 | 82. | 86. | 83. | 141. | 149. |
| 1000 | 80. | e3 . | 81. | 141. | 149. |
| 1250 | 80. | 81. | 79. | 140. | 148. |
| 1600 | 81. | E3 . | 81. | 139. | 148. |
| 2000 | 81. | 81. | 81. | 139. | 147. |
| 2500 | 82. | £1. | 82. | 138. | 146. |
| 3150 | 81. | 81. | 81. | 136. | 144. |
| 4000 | 81. | 80. | 80. | 134. | 143. |
| 5000 | 82. | 81. | 80. | 132. | 141. |
| 6300 | 78. | 79. | 77. | 131. | 139. |
| 8000 | 75. | 78. | 75. | 126. | 134. |
| 10000 | 73. | 74. | 74. | 123. | 129. |
| 12500 | 71. | 71. | 72. | 122. | 126. |
| 16000 | 67. | 66. | 68. | 119. | 124. 122. |
| 20000 | 60. | 59. | 62. | 118. | 122. |
| OCTAVE FREQ | | _ | | 150 | 162 |
| 63 | 76. | 76. | 78. | 150. | 152. |
| 125 | 78. | 78. | 79- | 152. | 154. 153. |
| 250 | 82. | 61. | 82. | 149. | 153. |
| 500 | 85. | 86. | 65. | 148. | 153. |
| 1000 | E6. | 85. | 86. | 145. | 152. |
| 2000 | 86. | E7. | 86. | 143. 139. | 148. |
| 4000 | 86. | E5 • | 85. | | 141. |
| 8000 | 81. | ٤2. | 80. | 133. | 129. |
| 16000 | 72. | 72. | 74. | 125. | 1470 |

CONFIGURATION 35 DELAYED QUENCH POWER SETTING 100 READING NO. 574

| | | NICROPHO | NE POSITION | | |
|--------------|------------|------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 71. | 72. | 72. | 144. | 150. |
| 63 | 78. | 79. | 80. | 144. | 146. |
| 80 | 69. | 65. | 69. | 146. | 149. |
| 100 | 71. | 72. | 72. | 150. | 150. |
| 125 | 77. | 77. | 77. | 146. | 150. |
| 160 | 75. | 75. | 76. | 146. | 150. |
| 200 | 78. | 76. | 76. | 147. | 150. |
| 250 | 78. | 77. | 77. | 143. | 150. |
| 315 | 79. | 79. | 79. | 143. | 150. |
| 400 | 79. | 75. | 79. | 144. | 149. |
| 500 | 80. | 80. | 80. | 146. | 150. |
| 630 | 83. | £3. | 82. | 136. | 150. |
| 800 | 82. | ٤2. | 82. | 136. | 151. |
| 1000 | 82. | 82. | 83. | 138. | 150. |
| 1250 | 81. | ٤1. | 80. | 137. | 150. |
| 1600 | 82. | 83. | 82. | 134. | 150. |
| 2000 | 82. | 82. | 82. | 136. | 150. |
| 2500 | 84. | 82. | 83. | 135. | 148. |
| 3150 | 82. | 82. | 81. | 133. | 147. |
| 4000 | 82. | 82. | 82. | 132. | 145. |
| 5000 | 83. | 23. | 81. | 134. | 143. |
| 6300 | 80. | •0• | 80. | 129. | 142. |
| 8000 | 78. | 79. | 78. | 126. | 136. |
| 10000 | 76. | 77. | 77. | 121. | 132. |
| 12500 | 75. | 75. | 76. | 121. | 128. |
| 16000 | 72. | 71. | 73. | 119. | 125. |
| 20000 | 66. | 65. | 67. | 119. | 123. |
| OCTAVE FREQ | | | | | |
| 63 | 7.0 | 00 | 0.1 | 160 | |
| 125 | 79. | 80. | 81. | 150. | 153. |
| 250 | 80. | 60. | 80. | 153. | 155. |
| 500 | 83. 86. | 82. | 82. | 150. | 155. |
| _ | | 86. | £5. | 148. | 154. |
| 1000 | 86. | £6. | 87. | 142. | 155. |
| 2000 4000 | 88. 87. | 87. | 87. | 140. | 154. |
| 8000 | | 87. | £6. | 138. | 150. |
| | 83. | £4. | 83. | 131. | 143. |
| 16000 | 77. | 77. | 78. | 125. | 131. |

CONFIGURATION 36
PRECHAMBER INITIAL DESIGN
POWER SETTING 25
READING NO. 566

| | | MICROPHO | NE PCSITIC | N | |
|--------------|-------------|------------|------------|------|-------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 61. | 63. | 64. | 131. | 140. |
| 63 | 67. | 67. | 69. | 131. | 141. |
| 80 | 70. | £7. | 67. | 133. | 141. |
| 100 | 64. | 65. | 65. | 134. | 142. |
| 125 | 67. | 69. | 69. | 134. | 144. |
| 160 | 71. | 71. | 70. | 140. | 145. |
| 200 | 72. | 72. | 71. | 132. | 147. |
| 250 | 72. | 72. | 73. | 131. | 145. |
| 315 | 76. | 75. | 76. | 134. | 146. |
| 400 | 76. | 75. | 75. | 136. | 144. |
| 500 | 77. | 80. | 79. | 133. | 144. |
| 630 | 80. | 79. | 80. | 131. | 144. |
| 800 | 80. | EO. | 80. | 130. | 145. |
| 1000 | 79. | 79. | 79. | 132. | 144. |
| 1250 | 79. | 79. | 80. | 132. | 144. |
| 1600 | 80. | 81. | 80. | 132. | 143. |
| 2000 | 80. | 81. | 80. | 132. | 143. |
| 2500 | 79. | 80. | 79. | 131. | 142. |
| 3150 | 80. | E1. | 79. | 130. | 140. |
| 4000 | 30 • | El. | 79. | 126. | 139. |
| 5000 | 79. | 79. | 77. | 126. | 141. |
| 6300 | 77. | 78. | 75. | 125. | 137. |
| 0006 | 74. | 75. | 71. | 120. | 131. |
| 10000 | 70. | 72. | 68. | 117. | 128. |
| 12500 | 67. | 66. | 65. | 114. | 123. |
| 16000 | 60. | 61. | 60. | 110. | 121. |
| 20000 | 54. | 54. | 55. | 109. | 116. |
| OCTAVE FREQ | | | | | 19991 |
| 63 | 72. | 71. | 72. | 137. | 145. |
| 125 | 73. | 74. | 73. | 142. | 149. |
| 250 | 79. | 78. | 79. | 137. | 151. |
| 500 | 83. | 83. | 83. | 139. | 149. |
| 1000 | 84 • | 84. | 84. | 136. | 149. |
| 2000 | 84. | E5. | 84. | 136. | 147. |
| 4000 | 84. | 85. | 83. | 133. | 145. |
| 8000 | 79. | 80. | 77. | 127- | 138. |
| 16000 | 68. | 67. | 67. | 116. | 126. |

CONFIGURATION 36
PRECHAMBER INITIAL DESIGN
POWER SETTING 25
READING NO. 5EE

| | | MICROPHONE POSITION | | | | |
|--------------|------------|---------------------|-----|------|-------|--|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 | |
| 50 | 63. | 63. | 64. | 130. | 141. | |
| 63 | 68. | 69. | 69. | 131. | 141. | |
| 80 | 69. | 67. | 66. | 133. | 142. | |
| 100 | 64. | 65. | 64. | 135. | 144. | |
| 125 | 69. | 70. | 70. | 135. | 151. | |
| 160 | 71. | 72. | 72. | 142. | 151. | |
| 200 | 71. | 72. | 71. | 135. | 148. | |
| 250 | 71. | 73. | 73. | 131. | 145. | |
| 31 5 | 76. | 74. | 75. | 131. | 144. | |
| 400 | 75. | 75. | 76. | 134. | 141. | |
| 500 | 76. | .03 | 79. | 130. | 142. | |
| 630 | 78. | 78. | 80. | 129. | 142. | |
| 800 | 79. | 75. | 79. | 129. | 143. | |
| 1000 | 78. | 77. | 77. | 130. | 142. | |
| 1250 | 77. | 76. | 76. | 130. | 143. | |
| 1600 | 78. | 75. | 79. | 131. | 142. | |
| 2000 | 78. | 78. | 77. | 130. | 141. | |
| 2500 | 78. | 78. | 77. | 129. | 140. | |
| 3150 | 78. | 75. | 78. | 128. | 138. | |
| 4000 | 78. | 75. | 77. | 124. | 137. | |
| 5000 | 78. | 77. | 75. | 125. | 139. | |
| 6300 | 76. | 76. | 73. | 123. | 135. | |
| 8000 | 73. | 73. | 70. | 119. | 130 - | |
| 10000 | 69. | 70. | 68. | 116. | 127. | |
| 12500 | 65. | 65. | 63. | 113. | 122. | |
| 16000 | 59. | 60. | 59. | 111. | 120. | |
| 20000 | 54. | 54. | 55. | 110. | 116. | |
| OCTAVE FREQ | | | | | | |
| 63 | 72. | 72. | 72. | 136. | 146. | |
| 125 | 74. | 75. | 75. | 143. | 154. | |
| 250 | 78. | 78. | 78. | 138. | 151. | |
| 500 | 81. | 83. | 83. | 136. | 146. | |
| 1000 | 83. | 82. | 82. | 134. | 147. | |
| 2000 | 83. | 83. | 83. | 135. | 146. | |
| 4000 | 83. | £3 . | 82. | 131. | 143. | |
| 8000 | 78. | 78. | 76. | 125. | 137. | |
| 16000 | 66. | 66. | 65. | 116. | 125. | |

CONFIGURATION 36
PRECHAMBER INITIAL DESIGN
POWER SETTING 25
READING NO. 585

| | | MICROPHO | NE PCSITIO | :N | |
|--------------|------|------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 63. | 64. | 64. | 135. | 141. |
| 63 | 68. | 70. | 68. | 134. | 141. |
| 80 | 68. | 67. | 65. | 133. | 142. |
| 100 | 64. | £5. | 65. | 136. | 143. |
| 125 | 68. | 69. | 69. | 137. | 144. |
| 160 | 70. | 71. | 69. | 140. | 146. |
| 200 | 70. | 71. | 70. | 138. | 149. |
| 250 | 70. | 72. | 73. | 137. | 146. |
| 315 | 76. | 75. | 77. | 137. | 146. |
| 400 | 75. | 75. | 76. | 138. | 144. |
| 500 | 75. | 78. | 76. | 137. | 145. |
| 630 | 78. | 79. | 78. | 136. | 145. |
| 800 | 78. | 75. | 79. | 137. | 146. |
| 1000 | 79. | 79. | 78. | 136. | 145. |
| 1250 | 79. | 75. | 78. | 137. | 145. |
| 1600 | 80 - | 75. | 79. | 136. | 145. |
| 2000 | 79. | 80. | 79. | 135. | 144. |
| 2500 | 79. | 75. | 78. | 135. | 144. |
| 31 50 | 80. | 81. | 80. | 133. | 141. |
| 4000 | 79. | 80. | 79. | 131. | 140. |
| 5000 | 79. | 79. | 78. | 131. | 141. |
| 6300 | 78. | 78. | 76. | 130. | 139. |
| 8000 | 75. | 75. | 73. | 126. | 134. |
| 10000 | 71. | 72. | 70. | 121. | 130. |
| 12500 | 66. | 66. | 65. | 117. | 124. |
| 16000 | 61. | 61. | 61. | 114. | 122. |
| 20000 | 54. | 54. | 55. | 110. | 116. |
| OCTAVE FREQ | | | | | |
| 63 | 72. | 72. | 71. | 139. | 146. |
| 125 | 73. | 74. | 73. | 143. | 149. |
| 250 | 78. | 78. | 79. | 142. | 152. |
| 500 | 81. | 82. | 82. | 142. | 149. |
| 1000 | 83. | 84. | 83. | 141. | 150. |
| 2000 | 84. | 84. | 83. | 140. | 149. |
| 4000 | 84. | £5. | 84. | 137. | 145. |
| 8000 | 80. | 80. | 78. | 132. | 141. |
| 16000 | 67. | 67. | 67. | 119. | 127. |

CONFIGURATION 36
PRECHAMBER INITIAL DESIGN
POWER SETTING 40
READING NO. 550

| | | MICROPHO | NE PCSITION | | |
|--------------|-----|------------|-------------|------|-------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 64. | 65. | 66. | 136. | 141. |
| 63 | 68. | 68. | 69. | 134. | 141. |
| 80 | 69. | 68. | 66. | 136. | 142. |
| 100 | 65. | 65. | 66. | 137. | 143. |
| 125 | 69. | 71. | 70. | 137. | 144. |
| 160 | 71. | 72. | 69. | 142. | 144. |
| 200 | 72. | 73. | 70. | 139. | 147. |
| 250 | 71. | 72. | 73. | 138. | 146. |
| 315 | 76. | 75. | 77. | 138. | 146. |
| 400 | 76. | 76. | 77. | 139. | 145. |
| 500 | 77. | 75. | 78. | 138. | 145. |
| 630 | 78. | 75. | 79. | 137. | 145. |
| 800 | 79. | e1. | 79. | 138. | 146. |
| 1000 | 80. | 75. | 79. | 138. | 145. |
| 1250 | 80. | 80. | 80. | 138. | 146. |
| 1600 | 81. | 81. | 81. | 138. | 145. |
| 2000 | 81. | 81. | 81. | 137. | 145. |
| 2500 | 80. | 80. | 80. | 137. | 144. |
| 3150 | 82. | 82. | 81. | 135. | 142. |
| 4000 | 82. | 81. | 80. | 134. | 142. |
| 5000 | 80. | .09 | 78. | 133. | 141. |
| 6300 | 79. | 75. | 76. | 132. | 140 - |
| 8000 | 76. | 76. | 73. | 127. | 135. |
| 10000 | 72. | 73. | 70. | 123. | 131. |
| 12500 | 67. | 67. | 66. | 118. | 126. |
| 16000 | 61. | 62. | 61. | 115. | 123. |
| 20000 | 55. | 55. | 55. | 111. | 117. |
| OCTAVE FREQ | | | | | |
| 63 | 72. | 72. | 72. | 140. | 146. |
| 125 | 74. | 75. | 73. | 144. | 148. |
| 250 | 78. | 78. | 79. | 143. | 151. |
| 500 | 82. | 83. | 83. | 143. | 150. |
| 1000 | 84. | 85. | 84. | 143. | 150 • |
| 2000 | 85. | 85. | 85. | 142. | 149. |
| 4000 | 86. | 86. | ٤5. | 139. | 146. |
| 8000 | 81. | 81. | 78. | 134. | 142. |
| 16000 | 68. | 68. | 67. | 120. | 128. |

CONFIGURATION 36
PRECHAMBER INITIAL DESIGN
POWER SETTING 55
READING NO. 591

| | | MICROPHO | NE POSITIO | N | |
|--------------|-----|-------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 67. | 67. | 68. | 138. | 141. |
| 63 | 76. | 77. | 77. | 136. | 142. |
| 80 | 71. | 68. | 66. | 136. | 143. |
| 100 | 69. | 65. | 68. | 138. | 145. |
| 125 | 77. | 78. | 76. | 136. | 144. |
| 160 | 73. | 74. | 72. | 142. | 145. |
| 200 | 73. | 73. | 73. | 136. | 148. |
| 250 | 74. | 76. | 76. | 134. | 147. |
| 315 | 80. | 79. | 79. | 136. | 147. |
| 400 | 79. | 79. | 80. | 138. | 147. |
| 500 | 79. | 79. | 79. | 137. | 147. |
| 630 | .08 | El. | 81. | 133. | 147. |
| 800 | 81. | 82. | 81. | 133. | 148. |
| 1000 | 82. | 81. | 82. | 135. | 147. |
| 1250 | 82. | 81. | 82. | 135. | 147. |
| 1600 | 83. | 82. | 83. | 135. | 147. |
| 2000 | 82. | 82. | 82. | 135. | 147. |
| 2500 | ٤5. | 83 • | 83. | 135. | 146. |
| 3150 | 83. | 82. | 83. | 133. | 145. |
| 4000 | 83. | 84. | e3. | 131. | 144. |
| 5000 | 81. | 81. | 79. | 127. | 142. |
| 6300 | 80. | 80. | 78. | 129. | 142. |
| 8000 | 77. | 76. | 75. | 123. | 137. |
| 10000 | 73. | 74. | 72. | 121. | 133. |
| 12500 | 69. | 65. | 68. | 117. | 127. |
| 16000 | 63. | 64. | 64. | 111. | 125. |
| 20000 | 57. | 57. | 57. | 108. | 122. |
| OCTAVE FREQ | | | | | |
| 63 | 78. | 78. | 78. | 142. | 147. |
| 125 | 79. | £0. | 78. | 144. | 149. |
| 250 | 82. | 81. | 81. | 140. | 152. |
| 500 | 84. | 85. | 85. | 141. | 152. |
| 1000 | 86. | 86. | 86. | 139. | 152. |
| 2000 | 88. | 87. | 87. | 140. | 151. |
| 4000 | 87. | e7. | 87. | 136. | 149. |
| 8000 | 82. | 82. | 80. | 130. | 144. |
| 16000 | 70. | 70. | 70. | 118. | 130. |

CONFIGURATION 36
PRECHAMBER INITIAL DESIGN
POWER SETTING 75
READING NU. 552

| | | MICROPHO | NE PCSITIC | N | |
|--------------|-------------|-------------|-------------|--------------|--------------|
| 1/3 OCT FREU | 1 | 2 | 3 | 4 | 5 |
| 50 | 71. | 71. | 72. | 137. | 141. |
| 63 | 78. | 78. | 79. | 139. | 143. |
| 80 | 71. | 69. | 68. | 138. | 142. |
| 100 | 69. | 70. | 70. | 139. | 145. |
| 125 | 76. | 77. | 76. | 137. | 145. |
| 160 | 74. | 74. | 73. | 142. | 146. |
| 200 | 75. | 75. | 73. | 139. | 149. |
| 250 | 75. | 77. | 77. | 135. | 147. |
| 315 | 79. | 75. | 79. | 137. | 147. |
| 400 | 78. | 75. | 79. | 138. | 147. |
| 500 | 78. | 80. | 79. | 138. | 148. |
| 630 | 81. | 81. | 81. | 134. | 147. |
| 800 | .0 8 | el . | 79. | 134. | 148. |
| 1000 | 82. | 81. | 80. | 135. | 147. |
| 1250 | 82. | E3 . | 82. | 136. | 148. |
| 1600 | 84. | 84. | 84. | 137. | 148. |
| 2000 | 83. | 93. | 83. | 136. | 147. |
| 2500 | 85. | 83. | ٤5. | 135. | 146. |
| 3150 | 87. | E7. | 87. | 133. | 149. |
| 4000 | 96. | 95. | 58 • | 137. | 161. |
| 5000 | 82. | 81. | 82. | 130. | 144. |
| 6300 | 81. | .03 | 79. | 129. | 144. |
| 8000 | 80. | 78. | 78. | 125. | 140. |
| 10000 | 74. | 74. | 73. | 120. | 133. |
| 12500 | 71. | 71. | 71. | 117. | 128. |
| 16000 | ₺6 • | 67. | 67. | 111. | 126. |
| 20000 | t2. | 61. | 63. | 108. | 122. |
| OCTAVE FREQ | | | | | |
| 63 | 79. | 75. | 80. | 143. | 147. |
| 125 | 79. | 75. | 78. | | |
| 250 | 82. | 82. | 82. | 145. | 150. |
| 500 | 84. | 85. | 85. | 142. 142. | 153. 152. |
| 1000 | 86. | e7 . | 85. | | |
| 2000 | 85. | 88. | 89. | 140. 141. | 152. |
| 4000 | 97. | 56. | 98. | 139. | 152. 161. |
| 8000 | 84. | 83. | 82. | 131. | |
| 16000 | 73. | 73. | | | 146. |
| 10000 | 73. | 13. | 73. | 118. | 131. |

CONFIGURATION 37 RICH PREMIX/SWIRL POWER SETTING 10 READING NO. 554

| | MICROPHONE POSITION | | | | | |
|--------------|---------------------|------------|-----|------|------|--|
| 1/3 OCT FRED | 1 | 2 | 3 | 4 | 5 | |
| 50 | 71. | 69. | 75. | 138. | 141. | |
| 63 | 67. | 67. | 74. | 139. | 143. | |
| 80 | 68. | ée. | 76. | 138. | 142. | |
| 100 | 65. | ee. | 75. | 139. | 143. | |
| 125 | 67. | 67. | 74. | 139. | 142. | |
| 160 | 69. | 72. | 76. | 141. | 143. | |
| 200 | 70. | 72. | 74. | 140. | 144. | |
| 250 | 70. | 65. | 74. | 138. | 144. | |
| 315 | 14. | 73. | 74. | 138. | 143. | |
| 400 | 74. | 72. | 74. | 138. | 142. | |
| 500 | 75. | 75. | 73. | 139. | 144. | |
| 630 | 76. | 76. | 73. | 138. | 143. | |
| 800 | 78. | 77. | 74. | 138. | 143. | |
| 1000 | 77. | 76. | 73. | 137. | 142. | |
| 1250 | 75. | 74. | 72. | 137. | 142. | |
| 1600 | 77. | 75. | 73. | 136. | 142. | |
| 2000 | 75. | 75. | 73. | 136. | 141. | |
| 2500 | 76. | 75. | 73. | 133. | 139. | |
| 3150 | 77. | 76. | 73. | 131. | 136. | |
| 4000 | 78. | 76. | 73. | 130. | 135. | |
| 5000 | 76. | 73. | 70. | 130. | 134. | |
| 6300 | 74. | 72. | 68. | 126. | 130. | |
| 8000 | 71. | 65. | 66. | 123. | 128. | |
| 10000 | 66. | 67. | 63. | 119. | 124. | |
| 12500 | 62. | 62. | 59. | 114. | 119. | |
| 16000 | 58. | 57. | 56. | 112. | 117. | |
| 20000 | 52. | 51. | 52. | 108. | 112. | |
| OCTAVE FREQ | | | | | | |
| 63 | 74. | 73. | 80. | 143. | 147. | |
| 125 | 72. | 74. | 80. | 145. | 147. | |
| 250 | 77. | 76. | 79. | 144. | 148. | |
| 500 | 80. | 75. | 78. | 143. | 148. | |
| 1000 | 82. | 81. | 78. | 142. | 147. | |
| 2000 | 81. | 80. | 78. | 140. | 146. | |
| 4000 | 82. | 8C. | 77. | 135. | 140. | |
| 8000 | 76. | 75. | 71. | 128. | 133. | |
| 1 6000 | 64. | 63. | 61. | 117. | 122. | |

CONFIGURATION 37 RICH PREMIX/SWIRL POWER SETTING 25 READING NO. 597

The second second second second

| | | MICROPHO | NE POSITIO | N | |
|--------------|-----|-------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 67. | 67. | 67. | 139. | 153. |
| 63 | 70. | 65. | 70. | 137. | 153. |
| 80 | 68. | 68. | 66. | 137. | 151. |
| 100 | 65. | 66. | 66. | 139. | 151. |
| 125 | 68. | 69. | 70. | 137. | 153. |
| 160 | 69. | 74. | 70. | 142. | 154. |
| 200 | 71. | 74. | 72. | 140. | 156. |
| 250 | 72. | 72• | 72. | 138. | 154. |
| 315 | 75. | 73. | 74. | 136. | 153. |
| 400 | 75. | 74. | 73. | 138. | 152. |
| 500 | 76. | 77. | 77. | 138. | 154. |
| 630 | 77. | 78. | 78. | 131. | 154. |
| 800 | 78. | 79. | 78. | 131. | 154. |
| 1000 | 77. | 79. | 78. | 132. | 153. |
| 1250 | 77. | 78. | 76. | 132. | 154. |
| 1600 | 78. | 75. | 78. | 132. | 153. |
| 2000 | 78. | 79. | 79. | 132. | 152. |
| 2500 | 76. | 78. | 78. | 131. | 151. |
| 3150 | 78. | 79. | 77. | 130. | 148. |
| 4000 | 78. | 79. | 78. | 127. | 147. |
| 5000 | 78. | 77. | 76. | 124. | 147. |
| 6300 | 75. | 75. | 73. | 124. | 143. |
| 8000 | 73. | 73. | 70. | 121. | 139. |
| 10000 | 68. | 70. | 67. | 117. | 135. |
| 12500 | 64. | 64. | 64. | 113. | 131. |
| 16000 | 59. | 59. | 60. | 108. | 128. |
| 20000 | 53. | 53. | 54. | 106. | 122. |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 73. | 73. | 143. | 157. |
| 125 | 72. | 76. | 74. | 145. | 158. |
| 250 | 78. | 78. | 78. | 143. | 159. |
| 500 | 81. | 61. | 81. | 141. | 158. |
| 1000 | 82. | 83. | 82. | 136. | 158. |
| 2000 | 82. | 83. | 83. | 136. | 157. |
| 4000 | 83. | E3 . | 82. | 132. | 152. |
| 8000 | 78. | 78. | 75. | 126. | 145. |
| 16000 | 65. | 65. | 66. | 115. | 133. |

CONFIGURATION 37 RICH PREMIX/SWIRL POWER SETTING 40 READING NO. 558

| | | MICROPHO | NE PCSITIC | :N | |
|--------------|------------|------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 68. | 69. | 67. | 137. | 142. |
| 63 | 74. | 77. | 75. | 136. | 142. |
| 80 | 68. | 68. | 67. | 137. | 142. |
| 100 | 68. | 69. | 69. | 139. | 143. |
| 125 | 72. | 71. | 73. | 138. | 144. |
| 160 | 73. | 74. | 72. | 143. | 145. |
| 200 | 75. | 78. | 74. | 143. | 149. |
| 250 | 75. | 76. | 76. | 143. | 148. |
| 315 | 78. | 78. | 78. | 138. | 146. |
| 400 | 77. | 77. | 77. | 140. | 144. |
| 500 | 78. | 79. | 79. | 141. | 145. |
| 630 | 80. | 81. | 80. | 133. | 145. |
| 800 | 79. | 75. | 79. | 132. | 145. |
| 1000 | 80. | 81. | 80. | 133. | 144. |
| 1250 | 91. | 91. | 94. | 134. | 144. |
| 1600 | 84. | 84. | 89. | 133. | 144. |
| 2000 | 81. | 81. | 81. | 133. | 143. |
| 2500 | 86. | .89 | 84. | 133. | 142. |
| 3150 | 80. | 81. | 81. | 131. | 139. |
| 4000 | 80. | 80. | 80. | 128. | 139. |
| 5000 | 80. | 75. | 79. | 125. | 138. |
| 6300 | 78. | 78. | 78. | 125. | 134. |
| 8000 | 75. | 76. | 76. | 122. | 130. |
| 10000 | 71. | 72. | 70. | 119. | 126. |
| 12500 | 67. | 67. | 67. | 114. | 122. |
| 16000 | 63. | 63. | 63. | 109. | 119. |
| 20000 | 56. | 59. | 57. | 107. | 113. |
| OCTAVE FREQ | | | | | |
| 63 | 76. | 78. | 76. | 141. | 147. |
| 125 | 76. | 77. | 76. | 145. | 149. |
| 250 | 81. | 82. | 81. | 147. | 153. |
| 500 | 83. | 84. | 84. | 144. | 149. |
| 1000 | 92. | 92. | 94. | 138. | 149. |
| 2000 | 89. | 90. | 91. | 138. | 148. |
| 4000 | E5. | 85. | E5 . | 133. | 143. |
| 8000 | 80. | 81. | 81. | 127. | 136. |
| 16000 | 69. | 69. | 69. | 116. | 124. |

CONFIGURATION 37 RICH PREMIX/SWIRL POWER SETTING 55 READING NO. 555

| | | MICROPHO | NE PCSITIC | ٨ | |
|--------------|------------|-------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 66. | 69. | 68. | 137. | 148. |
| 63 | 75. | 76. | 76. | 135. | 149. |
| 80 | 67. | 67. | 66. | 137. | 149. |
| 100 | 69. | 69. | 69. | 139. | 151. |
| 125 | 72. | 72. | 74. | 137. | 153. |
| 160 | 73. | 74. | 74. | 143. | 152. |
| 200 | 74. | 75. | 74. | 138. | 153. |
| 250 | 75. | 75. | 77. | 139. | 154. |
| 315 | 78. | 77. | 79. | 138. | 154. |
| 400 | 77. | 77. | 77. | 139. | 153. |
| 500 | 77. | 75. | 79. | 138. | 154. |
| 630 | 80. | .0 9 | 80. | 133. | 154. |
| 800 | 79. | 79. | 81. | 133. | 154. |
| 1000 | 79. | 80. | 79. | 134. | 153. |
| 1250 | 80. | 60. | 80. | 134. | 153. |
| 1600 | eo. | ٤0. | 81. | 134. | 153. |
| 2000 | 81. | 81. | 81. | 134. | 152. |
| 2500 | 84. | €2. | 81. | 133. | 151. |
| 3150 | 80. | ٤٥. | 80. | 132. | 148. |
| 4000 | 80. | 75. | 79. | 129. | 147. |
| 5000 | 80. | 79. | 78. | 125. | 146. |
| 6300 | 77. | 77. | 76. | 127. | 144. |
| 8000 | 77• | 75. | 75. | 122. | 139. |
| 10000 | 73. | 72. | 71. | 119. | 135. |
| 12500 | 69. | 65. | 69. | 115. | 131. |
| 16000 | 66. | 65. | 65. | 110. | 129. |
| 20000 | 60. | 60. | 60. | 107. | 123. |
| OCTAVE FREQ | | | | | |
| 63 | 76. | 77. | 77. | 141. | 153. |
| 125 | 76. | 77. | 78. | 145. | 157. |
| 250 | 81. | £1. | 82. | 143. | 158. |
| 500 | 83. | 24. | 84. | 142. | 158. |
| 1000 | 84. | E4. | ٤5. | 138. | 158. |
| 2000 | 87. | 86. | 86. | 138. | 157. |
| 4000 | £5. | 84. | 84. | 134. | 152. |
| 8000 | 81. | 80. | 79. | 129. | 146. |
| 16000 | 71. | 71. | 71. | 117. | 134. |

CONFIGURATION 37 RICH PREMIX/SWIRL POWER SETTING 75 READING NO. 600

| | | PICROPHO | NE POSITIO | N. | |
|-------------|-------------|-------------|------------|------|-------|
| 1/3 OCT FRE | 1 | 2 | 3 | 4 | 5 |
| 50 | 70. | 73. | 70. | 137. | 142. |
| 63 | 77. | 77. | 79. | 136. | 142. |
| 80 | 69. | 71. | 69. | 136. | 142. |
| 100 | 71. | 73. | 71. | 140. | 144. |
| 125 | 74. | 74. | 75. | 138. | 145. |
| 160 | 74. | 75. | 75. | 142. | 146. |
| 200 | 76. | 78. | 75. | 140. | 147. |
| 250 | 77. | 76. | 77. | 140. | 148. |
| 315 | 75. | 78. | 79. | 139. | 147. |
| 400 | 78. | 77. | 78. | 139. | 145. |
| 500 | 78. | 75. | 79. | 140. | 147. |
| 630 | 81. | 82. | 81. | 134. | 148. |
| 800 | 81. | 81. | 82. | 133. | 147. |
| 1000 | 82. | 82. | 82. | 134. | 147. |
| 1250 | 82. | 82. | 83. | 134. | 146. |
| 1600 | 83. | 82. | 84. | 134. | 146. |
| 2000 | 83. | £3. | 85. | 134. | 145. |
| 2500 | 83. | 84. | 84. | 134. | 144. |
| 3150 | 82. | 83. | 84. | 132. | 141. |
| 4000 | 82. | E2 • | 84. | 129. | .140. |
| 5000 | 82. | 82. | 84. | 127. | 139. |
| 6300 | 81. | 82. | 84. | 127. | 136. |
| 8000 | 80. | 75. | 83. | 122. | 133. |
| 10000 | 78. | 76. | 84. | 119. | 129. |
| 12500 | 74. | 74. | 83. | 115. | 126. |
| 16000 | 71. | 70. | 79. | 110. | 123. |
| 20000 | 66. | 65. | 73. | 107. | 121. |
| OCTAVE FREE |) | | | | |
| 63 | 78. | 79. | 80. | 141. | 147. |
| 125 | 78. | 75. | 79. | 145. | 150. |
| 250 | 82. | 82. | 82. | 144. | 152. |
| 500 | 84. | 85. | 84. | 143. | 152. |
| 1000 | 87. | 86. | 87. | 138. | 151. |
| 2000 | 88. | 68. | 89. | 139. | 150. |
| 4000 | 87. | 87. | 89. | 135. | 145. |
| 8000 | £5 . | 84. | 88. | 129. | 138. |
| 16000 | 76. | 76. | 85. | 117. | 129. |

CONFIGURATION 37 RICH PREMIX/SWIRL POWER SETTING 100 READING NO. 601

| | | MICROPHO | NE POSITIC | N | |
|--------------|------|-------------|------------|----------|------|
| 1/3 DCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 72. | 73. | 78. | 139. | 145. |
| 63 | 17. | 77. | 79. | 138. | 144. |
| 80 | 69. | 69. | 73. | 136. | 144. |
| 100 | 71. | 71. | 76. | 140. | 147. |
| 125 | 74. | 75. | 77. | 139. | 146. |
| 160 | 74. | 75. | 75. | 143. | 147. |
| 200 | 77. | 78. | 76. | 144. | 148. |
| 250 | 78. | 77. | 78. | 143. | 149. |
| 31.5 | 79. | 78. | 78. | 141. | 149. |
| 400 | 78. | 78. | 77. | 139. | 147. |
| 500 | 78. | 75. | 79. | 143. | 149. |
| 630 | 80. | 81. | 81. | 135. | 150. |
| 800 | 81. | eo. | 80. | 134. | 149. |
| 1000 | 81. | £1. | 80. | 135. | 148. |
| 1250 | 80. | 80. | 80. | 136. | 148. |
| 1600 | 82. | 82. | 82. | 135. | 148. |
| 2000 | 84. | 63 . | 83. | 135. | 148. |
| 2500 | 83. | 81. | 30. | 134. | 146. |
| 3150 | 82. | 81. | 80. | 131. | 144. |
| 4000 | 82. | 81. | 80. | 129. | 142. |
| 5000 | 82. | £1. | 79. | 128. | 140. |
| 6300 | 80. | 79. | 77. | 127. | 140. |
| 8000 | 79. | 78. | 76. | 122. | 134. |
| 10000 | 76. | 75. | 75. | 119. | 130. |
| 12500 | 74. | 72. | 73. | 115. | 128. |
| 16000 | 71. | 68. | 70. | 110. | 125. |
| 20000 | ι 6. | 64. | 65. | 107. | 121. |
| OCTAVE FREQ | | | | | |
| 63 | 79. | 79. | 82. | 143. | 149. |
| 125 | 78. | 79. | 81. | 146. | 151. |
| 250 | 83. | 82. | 82. | 148. | 153. |
| 500 | 84. | ٤4. | 34. | 145. | 154. |
| 1000 | ٤5. | 85. | 85. | 140. | 153. |
| 2000 | 88. | e7. | 87. | 139. | 152. |
| 4000 | 87. | 86. | 84. | 134. | 147. |
| 8000 | 63. | 82. | 81. | 129. | 141. |
| 16000 | 76. | 74. | 75. | 117. | 130. |

CONFIGURATION 3E UPTIMUM PRIMARY HOLES POWER SETTING 10 READING NO. 607

| | | MICROPHO | NE POSITION | | |
|--------------|------------|----------|-------------|------|-------|
| 1/3 OCT FREQ | ı | 2 | 3 | 4 | 5 |
| 50 . | 79. | 69. | 68. | 135. | 138. |
| 63 | 74. | 66. | 69. | 134. | 139. |
| 80 | 74. | 64. | 66. | 138. | 141. |
| 100 | 74. | £6. | 69. | 139. | 143. |
| 125 | 75. | 68. | 68. | 137. | 142. |
| 160 | 79. | 70. | 69. | 142. | 143. |
| 200 | 78. | 68. | 69. | 141. | 144. |
| 250 | 78. | 69. | 70. | 139. | 144. |
| 31 5 | 82. | 72. | 73. | 139. | 144. |
| 400 | 81. | 73. | 73. | 140. | 142. |
| 500 | 83. | 75. | 75. | 133. | 144. |
| 630 | 87. | 78. | 80. | 129. | 143. |
| 800 | 65. | 77. | 76. | 132. | 144. |
| 1000 | 87. | 76. | 75. | 133. | 142. |
| 1250 | 83. | 73. | 74. | 130. | 142. |
| 1600 | 84. | 75. | 75. | 130. | 142. |
| 2000 | 83. | 75. | 75. | 129. | 140. |
| 2500 | 82. | 73. | 74. | 128. | 139. |
| 3150 | 83. | 74. | 73. | 127. | 136. |
| 4000 | 84. | 74. | 73. | 123. | 135. |
| 5000 | 81. | 72. | 70. | 122. | 133. |
| 6300 | 79. | 69. | 68. | 120. | 129. |
| 8000 | 76. | 66. | 64. | 116. | 125. |
| 10000 | 71. | 63. | 61. | 113. | 120. |
| 12500 | 66. | 60. | 59. | 111. | 117. |
| 16000 | 63. | 56. | 56. | 108. | 115. |
| 20000 | 57. | 51. | 52. | 108. | 111. |
| | | | | | |
| OCT AVE FREQ | | | | | • • • |
| 63 | 81. | 72. | 73. | 141. | 144. |
| 125 | 81. | 73. | 73. | 145. | 147. |
| 250 | E5. | 75. | 76. | 145. | 149. |
| 500. | 89. | 81. | 82. | 141. | 148. |
| 1000 | 90. | 80. | 80. | 137. | 148. |
| 2000 | 88. | 79. | 79. | 134. | 145. |
| 4000 | 88. | 78. | 77. | 129. | 140. |
| 8000 | 81. | 71. | 70. | 122. | 131. |
| 16000 | 68. | 62. | 61. | 114. | 120. |

CONFIGURATION 38
OPTIMUM PRIMARY HOLES
POWER SETTING 25
READING NO. 6C8

| | | MICROPHONE | PCSITICN | | |
|--------------|-----|-------------|----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 64. | 64. | 64. | 135. | 141. |
| 63 | 69. | 68. | 69. | 133. | 140. |
| 80 | 66. | 65. | 66. | 138. | 142. |
| 100 | 66. | 67. | 69. | 139. | 143. |
| 125 | 67. | £9. | 70. | 137. | 144. |
| 160 | 71. | 70. | 70. | 142. | 145. |
| 200 | 71. | 70. | 68. | 139. | 146. |
| 250 | 70. | 70. | 72. | 139. | 145. |
| 315 | 75. | 73. | 74. | 138. | 146. |
| 400 | 72. | 73. | 74. | 139. | 144. |
| 500 | 74. | 76. | 76. | 135. | 145. |
| 630 | 79. | 75. | 80. | 129. | 145. |
| 800 | 78. | 78. | 78. | 130. | 145. |
| 1000 | 80. | 78. | 77. | 133. | 144. |
| 1250 | 76. | 75. | 75. | 130. | 144. |
| 1600 | 77. | 77. | 77. | 129. | 144. |
| 2000 | 76. | 77. | 77. | 129. | 143. |
| 2500 | 77. | 75. | 76. | 128. | 141. |
| 3150 | 77. | 77. | 76. | 127. | 139. |
| 4000 | 77. | 77. | 76. | 124. | 138. |
| 5000 | 76. | 75. | 74. | 121. | 137. |
| a 30 O | 73. | 72. | 71. | 120. | 131. |
| 8000 | 69. | 68. | 67. | 117. | 128. |
| 10000 | 65. | 66. | 63. | 114. | 123. |
| 12500 | 61. | £2 • | 61. | 111. | 120. |
| 16000 | 57. | 59. | 59. | 108. | 118. |
| 20000 | 52. | 53. | 54. | 108. | 113. |
| OCTAVE FREQ | | | | | |
| 63 | 72. | 71. | 72. | 141. | 146. |
| 125 | 73. | 74. | 74. | 145. | 149. |
| 250 | 77. | 76. | 77. | 143. | 150. |
| 500 | 81. | 81. | 82. | 141. | 149. |
| 1000 | 83. | 82. | 82. | 136. | 149. |
| 2000 | 81. | 81. | 81. | 133. | 148. |
| 4000 | 81. | £1. | 80. | 129. | 143. |
| 800 U | 75. | 74. | 73. | 122. | 133. |
| 16000 | 63. | 64. | 64. | 114. | 123. |

CONFIGURATION 3E
OPTIMUM PRIMARY HOLES
POWER SETTING 40
READING NO. 609

| | | MICROPHO | NE POSITIO | N | |
|--------------|-----|------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 65. | 65. | 67. | 138. | 140. |
| 63 | 69. | 69. | 70. | 136. | 142. |
| 80 | 68. | 67. | 67. | 141. | 144. |
| 100 | 67. | €8. | 70. | 143. | 145. |
| 125 | 68. | 69. | 69. | 140. | 146. |
| 160 | 71. | 70. | 70. | 144. | 146. |
| 200 | 73. | 72. | 69. | 142. | 147. |
| 250 | 72. | 71. | 73. | 142. | 147. |
| 315 | 75. | 73. | 74. | 141. | 147. |
| 400 | 74. | 73. | 74. | 143. | 145. |
| 500 | 75. | 76. | 77. | 140. | 147. |
| 630 | 80. | 78. | 80. | 132. | 147. |
| 800 | 79. | 80. | 80. | 134. | 147. |
| 1000 | 81. | EQ. | 79. | 137. | 146. |
| 1250 | 78. | 77. | 77. | 133. | 145. |
| 1600 | 79. | 79. | 78. | 133. | 145. |
| 2000 | 79. | 78. | 79. | 133. | 144. |
| 2500 | 77. | 77. | 77. | 132. | 143. |
| 3150 | 78. | 78. | 77. | 131. | 140. |
| 4000 | 79. | 78. | 77. | 127. | 139. |
| 5000 | 78. | 77. | 76. | 124. | 138. |
| 6300 | 74. | 73. | 73. | 125. | 134. |
| 8000 | 71. | 70. | 68. | 120. | 131. |
| 10000 | 68. | 67. | 65. | 117. | 125. |
| 12500 | 63. | 64. | 63. | 113. | 124. |
| 16000 | 59. | €0. | 59. | 109. | 122. |
| 20000 | 55. | 54. | 55. | 108. | 121. |
| OCTAVE FREQ | | | | | |
| 63 | 72. | 72. | 73. | 144. | 147. |
| 125 | 74. | 74. | 74. | 147. | 150. |
| 250 | 78. | 77. | 77. | 146. | 152. |
| 500 | 82. | 81. | 82. | 145. | 151. |
| 1000 | 84. | E4. | 84. | 140. | 151. |
| 2000 | 83. | 83. | 83. | 137. | 149. |
| 4000 | 83. | 82. | 81. | 133. | 144. |
| 8000 | 76. | 75. | 75. | 127. | 136. |
| 16000 | 65. | 66. | 65. | 115. | 127. |

CONFIGURATION 3E
UPTIMUM PRIMARY HOLES
POWER SETTING 55
READING NO. 610

| | | MICROPHONE | POSITION | | |
|--------------|-----|-------------|----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 68. | 68. | 69. | 142. | 139. |
| 63 | 76. | 76. | 77. | 137. | 147. |
| 80 | 67. | 67. | 67. | 142. | 137. |
| 100 | 69. | 70. | 72. | 144. | 142. |
| 125 | 72. | 73. | 75. | 141. | 145. |
| 160 | 73. | 75. | 73. | 144. | 144. |
| 200 | 75. | 75. | 73. | 143. | 143. |
| 250 | 75. | 76. | 77. | 143. | 147. |
| 31 5 | 79. | 75. | 79. | 142. | 149. |
| 400 | 77. | 77. | 79. | 143. | 149. |
| 500 | 79. | 78. | 79. | 142. | 149. |
| 630 | 81. | 81. | 83. | 133. | 152. |
| 800 | 80. | . 03 | 80. | 133. | 150. |
| 1000 | 82. | .03 | 80. | 138. | 150. |
| 1250 | 79. | 75. | 78. | 134. | 148. |
| 1600 | 80. | 79. | 79. | 133. | 149. |
| 2000 | 80. | .09 | 81. | 133. | 151. |
| 2500 | 81. | 83 . | 80. | 132. | 152. |
| 3150 | 79. | 75. | 79. | 130. | 149. |
| 4000 | 78. | 78. | 78. | 128. | 147. |
| 5000 | 78. | 78. | 77. | 124. | 147. |
| 6300 | 75. | 75. | 74. | 125. | 145. |
| 8000 | 71. | 72. | 71. | 120. | 141. |
| 10000 | 68. | 69. | 67. | 117. | 138. |
| 12500 | 64. | 66. | 65. | 113. | 135. |
| 16000 | 60. | 62. | 62. | 109. | 132. |
| 20000 | 55. | 56. | 57. | 108. | 126. |
| OCTAVE FREQ | | | | | |
| 63 | 77. | 77. | 78. | 146. | 148. |
| 125 | 76. | 78. | 78. | 148. | 149. |
| 250 | 82. | £2. | 82. | 147. | 152. |
| 500 | 84. | 84. | 86. | 146. | 155. |
| 1000 | 85. | £4. | 84. | 140. | 154. |
| 2000 | 65. | 86. | 85. | 137. | 156. |
| 4000 | 83. | 83. | 83. | 133. | 153. |
| 8000 | 77. | 77. | 76. | 127. | 147. |
| 16000 | 66. | 68. | 67. | 115. | 137. |
| | | | | | |

CONFIGURATION 38
DPTIMUM PRIMARY FOLES
POWER SETTING 75
READING NU. 611

PATE DISTRIBUTED OF THE PARTY O

| | | MICKOPHC | NE POSITION | | |
|--------------|-----|------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 71. | 72. | 70. | 142. | 146. |
| 63 | 14. | 77. | 76. | 141. | 144. |
| 80 | 68. | 67. | 68. | 144. | 146. |
| 100 | 69. | 70. | 72. | 145. | 147. |
| 125 | 71. | 73. | 76. | 143. | 147. |
| 160 | 72. | 74. | 74. | 146. | 148. |
| 200 | 74. | 75. | 73. | 146. | 149. |
| 250 | 75. | 76. | 76. | 143. | 148. |
| 315 | 78. | 78. | 78. | 143. | 149. |
| 400 | 77. | 77. | 79. | 144. | 147. |
| 500 | 77. | 78. | 79. | 144. | 147. |
| 630 | 81. | 81. | 83. | 139. | 149. |
| 800 | 79. | 80. | 82. | 138. | 149. |
| 1000 | 82. | .09 | 81. | 141. | 149. |
| 1250 | 79. | 79. | 79. | 139. | 147. |
| 1600 | 80. | 80. | 81. | 138. | 148. |
| 2000 | 81. | 81. | €2. | 138. | 147. |
| 2500 | 80. | 84. | 80. | 136. | 144. |
| 3150 | 79. | 79. | 80. | 135. | 143. |
| 4000 | 78. | 78. | 79. | 133. | 141. |
| 5000 | 78. | 78. | 78. | 130. | 139. |
| 6300 | 75. | 75. | 76. | 129. | 137. |
| 8000 | 72. | 72. | 72. | 124. | 132. |
| 10000 | 69. | 70. | 70. | 120. | 127. |
| 12500 | 66. | 68. | 68. | 120. | 125. |
| 16000 | 63. | 63. | 65. | 118. | 123. |
| 20000 | 57. | 58. | 59. | 118. | 122. |
| | | | | | |
| OCTAVE FREQ | | | | | |
| 63 | 76. | 75. | 77. | 147. | 150. |
| 125 | 76. | 77. | 79. | 150. | 152. |
| 250 | 81. | 81. | 81. | 149. | 153. |
| 500 | 84. | 84. | 86. | 148. | 153. |
| 1000 | 85. | 84. | £6. | 144. | 153. |
| 2000 | 85. | ٤7. | 86. | 142. | 151. |
| 4000 | 83. | £3. | 84. | 138. | 146. |
| 8000 | 77. | 78. | 78. | 131. | 139. |
| 16000 | 68. | 70. | 70. | 124. | 128. |

CONFIGURATION 38
OPTIMUM PRIMARY HOLES
POWER SETTING 100
READING NO. 612

| | | MICROPHO | NE POSITIO | | |
|--------------|-----|-------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 73. | 72. | 72. | 146. | 148. |
| 63 | 78. | 78. | 75. | 143. | 146. |
| 80 | 69. | 69. | 68. | 144. | 146. |
| 100 | 72. | 72. | 71. | 147. | 148. |
| 125 | 75. | 75. | 75. | 144. | 148. |
| 160 | 75. | 75. | 74. | 144. | 149. |
| 200 | 77. | 77. | 73. | 146. | 150 |
| 250 | 77. | 77. | 77. | 144. | 149. |
| 315 | 80. | 75. | 78. | 144. | 149. |
| 400 | 80. | 79. | 80. | 144. | 148. |
| 500 | 81. | 80. | 79. | 146. | 149. |
| 630 | 83. | 82. | 81. | 140. | 150. |
| 800 | 81. | €2• | 82. | 140. | 149. |
| 1000 | 84. | 83. | 82. | 141. | 150. |
| 1250 | 81. | 80. | 80. | 140. | 149. |
| 1600 | 82. | 81. | 81. | 138. | 148. |
| 2000 | 83. | 82• | 82. | 138. | 148. |
| 2500 | 83. | E2 . | 81. | 137. | 146. |
| 3150 | 81. | £1. | 80. | 134. | 144. |
| 4000 | 80. | 80. | 79. | 133. | 142. |
| 5000 | 80. | 80. | 78. | 131. | 140. |
| 6300 | 78. | 75. | 77. | 129. | 139. |
| 8000 | 75. | 77. | 74. | 124. | 134. |
| 10000 | 74. | 74. | 72. | 120. | 128. |
| 12500 | 71. | 72. | 70. | 120. | 126. |
| 16000 | 68. | 68. | 67. | 118. | 123. |
| 20000 | 64. | 63. | 61. | 118. | 121. |
| OCTAVE FREQ | | | | | |
| 63 | 80. | 79. | 77. | 149. | 152. |
| 125 | 79. | 75. | 78. | 150. | 153. |
| 250 | 83. | E3 . | 81. | 150. | 154. |
| 500 | 86. | £5. | 85. | 149. | 154. |
| 1000 | 87. | 87. | 86. | 145. | 154. |
| 2000 | 87. | 86. | 86. | 142. | 152. |
| 4000 | 85. | £5. | 84. | 138. | 147. |
| 8000 | 81. | 62. | 80. | 131. | 140. |
| 16000 | 73. | 74. | 72. | 124. | 129. |

CONFIGURATION 35
PRECHAMBER RICHER PRIMARY
POWER SETTING 10
READING NO. £16

| | | MICROPHONE | PCSITION | | |
|--------------|-----|-------------|----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 74. | 74. | 72. | 131. | 139. |
| 63 | 71. | 69. | 71. | 129. | 137. |
| 80 | 68. | 65. | 67. | 131. | 139. |
| 100 | 65. | 65. | 65. | 132. | 143. |
| 125 | 68. | 68. | 69. | 133. | 148. |
| 160 | 72. | 71. | 71. | 141. | 152. |
| 200 | 71. | 72. | 70. | 131. | 146. |
| 250 | 71. | 71. | 72. | 129. | 144. |
| 315 | 76. | 74. | 76. | 131. | 144. |
| 400 | 75. | 74. | 75. | 134. | 142. |
| 500 | 75. | 75. | 77. | 129. | 143. |
| 630 | 78. | 78. | 79. | 128. | 143. |
| 800 | 78. | 78. | 78. | 128. | 143. |
| 1000 | 77. | 77. | 77. | 129. | 142. |
| 1250 | 76. | 76. | 75. | 130. | 143. |
| 1600 | 78. | 78. | 77. | 130. | 142. |
| 2000 | 76. | 76. | 75. | 129. | 141. |
| 2500 | 76. | 75. | 75. | 128. | 139. |
| 3150 | 76. | 77. | 75. | 127. | 137. |
| 4000 | 76. | 76. | 74. | 122. | 136. |
| 5000 | 75. | 74. | 72• | 122. | 136. |
| 6300 | 74. | 72. | 70. | 120. | 133. |
| 8000 | 71. | es. | 68. | 116. | 129. |
| 10000 | 68. | tt. | 65. | 113. | 123. |
| 12500 | 64. | £2. | 61. | 110. | 120. |
| 16000 | 58. | 57. | 57. | 108. | 118. |
| 20000 | 53. | 51. | 53. | 108. | 113. |
| OCTAVE FREQ | | | | | |
| 63 | 76. | 76. | 75. | 135. | 143. |
| 125 | 74. | 73. | 74. | 142. | 154. |
| 250 | 78. | 17. | 78. | 135. | 150. |
| 500 | 81. | 82. | 82. | 136. | 147. |
| 1000 | 82. | 82. | 82. | 134. | 147. |
| 2000 | 82. | £1. | 81. | 134. | 146. |
| 4000 | .08 | 81 . | 79. | 129. | 141. |
| 8000 | 76. | 74. | 73. | 122. | 135. |
| 16000 | 65. | £3. | 63. | 114. | 123. |

CONFIGURATION 39
PRECHAMBER RICHER PRIMARY
POWER SETTING 25
READING NO. 617

| | | MICROPHO | NE POSITIO | N | |
|--------------|-----|------------|------------|------|------|
| 1/3 DCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 72. | 74. | 72. | 135. | 139. |
| 63 | 69. | 71. | 72. | 132. | 138. |
| 80 | 69. | 68. | 67. | 132. | 140. |
| 100 | 65. | 66. | 65. | 137. | 142. |
| 125 | 68. | 68. | 69. | 135. | 143. |
| 160 | 70. | 70. | 69. | 139. | 143. |
| 200 | 71. | 72. | 69. | 135. | 145. |
| 250 | 72. | 72. | 72. | 134. | 144. |
| 31 5 | 76. | 74. | 76. | 135. | 144. |
| 400 | 74. | 74. | 75. | 136. | 143. |
| 500 | 76. | 79. | 77. | 135. | 144. |
| 630 | 78. | 78. | 79. | 134. | 144. |
| 800 | 79. | 75. | 79. | 135. | 145. |
| 1000 | 79. | 78. | 79. | 135. | 143. |
| 1250 | 78. | 79. | 78. | 136. | 145. |
| 1600 | 79. | 75. | 79. | 134. | 143. |
| 2000 | 78. | 78. | 78. | 134. | 142. |
| 2500 | 77. | 77. | 77. | 132. | 142. |
| 3150 | 78. | 78. | 78. | 131. | 139. |
| 4000 | 78. | 78. | 77. | 128. | 138. |
| 5000 | 77. | 76. | 74. | 128. | 137. |
| 6300 | 75. | 73. | 72. | 125. | 135. |
| 9000 | 72. | 71. | 70- | 121. | 130. |
| 10000 | 69. | 68. | 67. | 117. | 125. |
| 12500 | 65. | 63. | 63. | 113. | 121. |
| 16000 | 59. | 58. | 58. | 111. | 120. |
| 20000 | 54. | 52. | 54. | 108. | 114. |
| OCTAVE FREQ | | | | | |
| 63 | 75. | 76. | 76. | 138. | 144. |
| 125 | 73. | 73. | 73. | 142. | 147. |
| 250 | 78. | 78. | 78. | 139. | 149. |
| 500 | 81. | £2. | 82. | 140. | 148. |
| 1000 | 83. | £3. | 83. | 140. | 149. |
| 2000 | 83. | 83. | 83. | 138. | 147. |
| 4000 | 82. | 82. | 81. | 134. | 143. |
| 8000 | 77. | 76. | 15. | 127. | 137. |
| 16000 | 66. | 64. | 65. | 116. | 124. |
| | | | | | |

CONFIGURATION 35
PRECHAMBER RICHER PRIMARY
POWER SETTING 40
READING NO. 618

| | | MICROPHON | E POSITICA | | |
|--------------|-------------|--------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 75. | 73. | 72. | 136. | 140. |
| 63 | 73. | 73. | 77. | 133. | 141. |
| 80 | 69. | 68. | 68. | 134. | 141. |
| 100 | 67. | 68. | 68. | 136. | 144. |
| 125 | 70. | 71. | 74. | 135. | 143. |
| 160 | 72. | 71. | 72. | 141. | 145. |
| 200 | 74. | 72. | 72. | 133. | 146. |
| 250 | 74. | 74. | 75. | 132. | 146. |
| 315 | 78. | 76. | 78. | 134. | 146. |
| 400 | 77. | 77. | 78. | 136. | 144. |
| 500 | 78. | 75. | 78. | 134. | 146. |
| 630 | 80. | .03 | 80. | 131. | 146. |
| 800 | 80. | 80. | 80. | 131. | 147. |
| 1000 | 81. | 79. | 81. | 132. | 146. |
| 1250 | 80. | 80. | 80. | 133. | 146. |
| 1600 | £5. | 83. | 83. | 136. | 148. |
| 2000 | 81. | 80. | 81. | 132. | 145. |
| 2500 | 81. | .09 | 82. | 131. | 144. |
| 3150 | 80. | £ 0 • | 80• | 130. | 142. |
| 4000 | 80. | 75. | 80. | 127. | 141. |
| 5000 | 79. | 76. | 76. | 125. | 140. |
| 6300 | 17. | 74. | 74. | 125. | 138. |
| 8000 | 74. | 72. | 71. | 120. | 133. |
| 10000 | 71. | 69. | 68. | 117. | 129. |
| 12500 | 66. | 64. | 64. | 113. | 126. |
| 16000 | 61. | 59. | 60. | 109. | 124. |
| 20000 | 54. | 53. | 55. | 108. | 121. |
| OCTAVE FREQ | | | | | |
| 63 | 78. | 77. | 79. | 139. | 145. |
| 125 | 75. | 75. | 77. | 143. | 149. |
| 250 | 81. | 79. | 80. | 138. | 151. |
| 500 | 83. | 84. | 84. | 139. | 150. |
| 1000 | 85 . | 84. | 85. | 137. | 151. |
| 2000 | 88. | 84. | 87. | 138. | 151. |
| 4000 | 84. | 83. | 84. | 133. | 146. |
| 8000 | 79. | 17. | 76. | 127. | 140. |
| 16000 | 67. | 65. | 66. | 115. | 129. |

CONFIGURATION 39
PRECHAMBER RICHER PRIMARY
POWER SETTING 55
READING NO. 619

| | | MICROPHO | NE POSITION | N. | |
|--------------|------------|-------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 68. | 67. | 66. | 134. | 139. |
| 63 | 76. | 75. | 15. | 133. | 140. |
| 80 | 68. | 66. | 64. | 133. | 141. |
| 100 | 68. | 68. | 68. | 137. | 143. |
| 125 | 73. | 74. | 74. | 135. | 143. |
| 160 | 73. | 73. | 71. | 142. | 144. |
| 200 | 74. | 74. | 71. | 135. | 146. |
| 250 | 75. | 76. | 75. | 133. | 145. |
| 315 | 79. | .03 | 78. | 135. | 146. |
| 400 | 78. | 75. | 78. | 136. | 145. |
| 500 | 78. | EO. | 79. | 136. | 147. |
| 630 | 81. | E1. | 81. | 132. | 147. |
| 80 O | 81. | 81. | 80. | 132. | 148. |
| 1000 | 82. | e1. | 81. | 133. | 147. |
| 1250 | £6. | E3 . | 82. | 135. | 149. |
| 1600 | 96. | 89. | 89. | 141. | 154. |
| 2000 | 82. | 82. | 82. | 133. | 147. |
| 2500 | 82. | e1. | 82. | 133. | 146. |
| 3150 | 84. | E3. | 84. | 131. | 143. |
| 4000 | 83. | 82. | 82. | 129. | 143. |
| 5000 | 79. | 78. | 77. | 125. | 141. |
| 6300 | 78. | 77. | 76. | 126. | 140. |
| 8000 | 75. | 74. | 72. | 121. | 135. |
| 10000 | 72. | 71. | 70. | 118. | 130. |
| 12500 | 69. | 68. | 66. | 114. | 126. |
| 16000 | 64. | 63. | 62. | 109. | 125. |
| 20000 | 61. | 60. | 56. | 108. | 122. |
| OCTAVE FREQ | | | | | |
| 63 | 77. | 76. | 76. | 138. | 145. |
| 125 | 77. | 77. | 76. | 144. | 148. |
| 250 | 81. | 82. | 80. | 139. | 150. |
| 500 | 84. | 85. | 84. | 140. | 151. |
| 1000 | 88. | e7. | 86. | 138. | 153. |
| 2000 | 96. | 90. | 90. | 142. | 155. |
| 4000 | 87. | 86. | 87. | 134. | 147. |
| 8000 | 80. | 79. | 78. | 128. | 142. |
| 16000 | 71. | 70. | 68. | 116. | 129. |

CONFIGURATION 39
PRECHAMBER RICHER PRIMARY
POWER SETTING 75
READING NO. 621

| | | MICROPHONE | POSITION | | |
|--------------|-------------|-------------|------------|------|--------------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 67. | 75. | 69. | 135. | 139. |
| 63 | 75. | 76. | 78. | 133. | 141. |
| 80 | 68. | 72. | 67. | 134. | 140. |
| 100 | 69. | 73. | 70. | 138. | 143. |
| 125 | 72. | 75. | 74. | 137. | 144. |
| 160 | 73. | 74. | 73. | 142. | 144. |
| 200 | 74. | 75. | 73. | 138. | 146. |
| 250 | 75. | 75. | 77. | 134. | 146. |
| 315 | 79. | 78. | 78. | 136. | 146. |
| 400 | 77. | 78. | 78. | 136. | 145. |
| 500 | 78. | 78. | 78. | 137. | 147. |
| 630 | 80. | 80. | 81. | 133. | 147. |
| 800 | 80. | 80. | 80. | 133. | 148. |
| 1000 | 82. | 81. | 81. | 134. | 147. |
| 1250 | 83. | 82. | 83. | 135. | 149. |
| 1600 | 93. | 90. | 54. | 145. | 156. |
| 2000 | 63. | 83. | 83. | 134. | 147. |
| 2500 | 82. | 82. | 82. | 134. | 146. |
| 3150 | 90. | 91. | 90. | 132. | 147. |
| 4000 | 86. | £5. | 85. | 131. | 146. |
| 5000 | 81. | EG. | 80. | 128. | 141. |
| 6300 | 79. | 78. | 78. | 126. | 141. |
| 8000 | 76. | 75. | 75. | 122. | 137. |
| 10000 | 73. | 72. | 71. | 118. | 132. |
| 12500 | 69. | 68. | 68. | 114. | 128. |
| 16000 | 64. | 64. | 64. | 109. | 127. |
| 20000 | 61. | 60. | 62. | 108. | 122. |
| 20000 | | | | | |
| OCTAVE FREQ | | | | 120 | 146 |
| 63 | 76. | 79. | 79. | 139. | 145. |
| 125 | 76. | 75. | 77. | 144. | 148. |
| 250 | 81. | 81. | 81. | 141. | 151. |
| 500 | 83. | 84 • | 84. | 140. | 151. |
| 1000 | E7 • | 86. | 86. | 139. | 153. |
| 2000 | 94. | 91. | 55. | 146. | 157. |
| 4000 | 92. | 92. | 92. | 135. | 150. 143. |
| 8000 | 81. | 80. | 80. | 128. | 131. |
| 16000 | 71. | 70. | 70. | 116. | 131. |

CONFIGURATION 40
PEPPERPOT DOME
POWER SETTING 10
READING NO. 630

| | | MICROPHEN | E PCSITION | | |
|--------------|-----|------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 67. | 66. | 0. | 135. | 139. |
| 63 | 68. | 68. | 0. | 133. | 139. |
| 80 | 67. | 67. | 0. | 138. | 141. |
| 100 | 66. | 68. | 0. | 139. | 142. |
| 125 | 67. | 68. | 0. | 137. | 141. |
| 160 | 70. | 71. | 0. | 140. | 140. |
| 200 | 70. | 69. | 0. | 135. | 140. |
| 250 | 71. | 71. | G. | 136. | 141. |
| 315 | 74. | 72. | 0. | 136. | 142. |
| 400 | 73. | 74. | 0. | 138. | 141. |
| 500 | 75. | 76. | 0. | 133. | 142. |
| 630 | 80. | 75. | 0. | 128. | 142. |
| 800 | 77. | 78. | 0. | 132. | 143. |
| 1000 | 79. | 78. | 0. | 134. | 141. |
| 1250 | 75. | 74. | 0. | 130. | 141. |
| 1600 | 77. | 75. | 0. | 130. | 140. |
| 2000 | 76. | 76. | 0. | 130. | 139. |
| 2500 | 75. | 75. | 0. | 129. | 136. |
| 3150 | 77. | 75. | 0. | 128. | 134. |
| 4000 | 76. | 75. | 0. | 124. | 133. |
| 5000 | 74. | 73. | 0. | 123. | 133. |
| 6300 | 72. | 71. | 0. | 122. | 128. |
| 8000 | 70. | 69. | 0. | 119. | 124. |
| 10000 | 66. | 68. | 0. | 115. | 120. |
| 12500 | 62. | 64. | 0. | 113. | 117. |
| 16000 | 57. | 60. | 0. | 110. | 114. |
| 20000 | 53. | 56. | 0. | 109. | 112. |
| OCTAVE FREQ | | | | | |
| 63 | 72. | 72. | 0. | 141. | 145. |
| 125 | 73. | 74. | 0. | 144. | 146. |
| 250 | 77. | 76. | 0. | 140. | 146. |
| 500 | 82. | 82. | 0. | 140. | 146. |
| 1000 | 82. | 82. | 0. | 137. | 147. |
| 2000 | 81. | .09 | 0. | 134. | 143. |
| 4000 | 81. | 79. | 0. | 130. | 138. |
| 8000 | 75. | 74. | 0. | 124. | 130. |
| 16000 | 64. | 66. | 0. | 116. | 120. |

CONFIGURATION 40
PEPPERPOT DOME
POWER SETTING 25
READING NO. 631

The state of the s

| | | MICROPHO | NE POSITION | | |
|--------------|-----|------------|-------------|------|------|
| 1/3 UCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 66. | 76. | 0. | 136. | 139. |
| 63 | 69. | 75. | 0. | 134. | 139. |
| 80 | 66. | 73. | 0. | 138. | 141. |
| 100 | 66. | 72. | 0. | 140. | 141. |
| 125 | 68. | 71. | 0. | 139. | 142. |
| 160 | 69. | 72. | 0. | 141. | 142. |
| 200 | 72. | 70. | 0. | 136. | 142. |
| 250 | 72. | 72. | 0. | 136. | 142. |
| 315 | 75. | 73. | 0. | 138. | 143. |
| 400 | 73. | 73. | 0. | 139. | 142. |
| 500 | 76. | 76. | 0. | 137. | 143. |
| 630 | 79. | EO. | 0. | 130. | 144. |
| 800 | 78. | .09 | 0. | 133. | 145. |
| 1000 | 82. | 75. | 0. | 136. | 143. |
| 1250 | 77. | 76. | 0. | 132. | 141. |
| 1600 | 78. | 77. | 0. | 132. | 141. |
| 2000 | 78. | 78. | 0. | 131. | 140. |
| 2500 | 77. | 76. | 0. | 130. | 138. |
| 3150 | 78. | 77. | 0. | 129. | 135. |
| 4000 | 78. | 77. | 0. | 125. | 134. |
| 5000 | 76. | 75. | 0. | 123. | 133. |
| 6300 | 74. | 72. | 0. | 122. | 129. |
| 8000 | 71. | 70. | 0. | 118. | 125. |
| 10000 | 67. | 68. | 0. | 115. | 121. |
| 12500 | 64. | 65. | 0. | 112. | 117. |
| 16000 | 59. | 61. | 0. | 109. | 114. |
| 20000 | 54. | 56. | 0. | 108. | 112. |
| OCTAVE FREQ | Q | | | | |
| 63 | Ÿ2. | 80. | 0. | 141. | 145. |
| 125 | 72. | 76. | ő. | 145. | 146. |
| 250 | 78. | 77. | 0. | 142. | 147. |
| 500 | 81. | 62. | o. | 141. | 148. |
| 1000 | 84. | 83. | o. | 139. | 148. |
| 2000 | 82. | £2. | 0. | 136. | 145. |
| 4000 | 82. | 81. | o. | 131. | 139, |
| 8000 | 76. | 75. | o. | 124. | 131. |
| 16000 | 66. | 67. | 0. | 115. | 120. |

CONFIGURATION 40
PEPPERPOT COME
POWER SETTING 40
READING NO. 632

| | | MICROPHO | NE POSITIO | N | |
|--------------|-----|-------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 74. | 74. | 0. | 138. | 141. |
| 63 | 73. | 74. | 0. | 136. | 140. |
| 80 | 70. | 71. | 0. | 139. | 143. |
| 100 | 69. | 71. | 0. | 141. | 144. |
| 125 | 70. | 71. | 0. | 139. | 144. |
| 160 | 71. | 72. | 0. | 143. | 142. |
| 200 | 72. | 72. | 0. | 137. | 143. |
| 250 | 73. | 73• | 0. | 138. | 143. |
| 315 | 76. | 74. | 0. | 139. | 144. |
| 400 | 73. | 74. | 0. | 140. | 142. |
| 500 | 75. | 76. | 0. | 140. | 144. |
| 630 | 80. | 80. | 0. | 132. | 145. |
| 800 | 80. | 80. | 0. | 134. | 146. |
| 1000 | 85. | 83. | 0. | 139. | 145. |
| 1250 | 79. | 78. | 0. | 133. | 143. |
| 1600 | 80. | 75. | 0. | 132. | 142. |
| 2000 | 81. | 80. | 0. | 133. | 142. |
| 2500 | 79. | 78. | 0. | 132. | 140. |
| 3150 | 80. | 75. | 0. | 131. | 137. |
| 4000 | 78. | 78. | 0. | 127. | 136. |
| 5000 | 77. | 71. | v. | 124. | 135. |
| 6300 | 75. | 74. | 0. | 124. | 131. |
| 8000 | 72. | 72. | 0. | 120. | 126. |
| 10000 | 69. | 70. | 0. | 117. | 122. |
| 12500 | 65. | €8. | 0. | 113. | 119. |
| 16000 | 61. | 64. | 0. | 110. | 115. |
| 20000 | 56. | 59. | 0. | 109. | 112. |
| OCTAVE FREQ | | | | | |
| 63 | 77. | 78. | 0. | 143. | 146. |
| 125 | 75. | 76. | 0. | 146. | 148. |
| 250 | 79. | 78. | 0. | 143. | 148. |
| 500 | 82. | 82. | v. | 143. | 149. |
| 1000 | ٤7. | 86. | 0. | 141. | 150. |
| 2000 | 85. | 84. | 0. | 137. | 146. |
| 4000 | 83. | E3 . | 0. | 133. | 141. |
| 8000 | 77. | 77. | 0. | 126. | 133. |
| 16000 | 67. | 70. | 0. | 116. | 121. |

CONFIGURATION 40
PEPPERPOT DOME
POWER SETTING 55
READING NO. 633

| | | MICROPHO | NE POSITIO | N | |
|--------------|------------|-------------|------------|--------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 17. | 76. | 0. | 140. | 141. |
| 63 | 81. | £1. | 0. | 148. | 141. |
| 80 | 72. | 72. | 0. | 140. | 143. |
| 100 | 71. | 73. | 0. | 142. | 145. |
| 125 | 73. | 75. | 0. | 141. | 145. |
| 160 | 75. | 76. | 0. | 143. | 144. |
| 200 | 78. | 77. | 0. | 140. | 144. |
| 250 | 76. | 76. | 0. | 138. | 145. |
| 315 | 79. | 78. | 0. | 140. | 145. |
| 400 | 77. | 77. | 0. | 142. | 145. |
| 500 | 78. | 79. | 0. | 142. | 145. |
| 630 | 82. | 83. | 0. | 134. | 147. |
| 800 | 81. | 82. | v. | 135. | 147. |
| 1000 | 65. | E5. | 0. | 140. | 147. |
| 1250 | 80. | 80. | 0. | 136. | 144. |
| 1600 | 81. | £2 • | 0. | 134. | 144. |
| 2000 | 82. | 81. | 0. | 134. | 143. |
| 2500 | 81. | 84. | 0. | 133. | 141. |
| 3150 | 81. | 80. | 0. | 132. | 138. |
| 4000 | 80. | 79. | 0. | 129. | 137. |
| 5000 | 78. | 76. | 0. | . 126. | 136. |
| 6300 | 77. | 76. | 0. | 126. | 134. |
| 8000 | 74. | 74. | 0. | 122. | 129. |
| 10000 | 71. | 72. | 0. | 119. | 124. |
| 12500 | 67. | 70. | 0. | 116. | 121. |
| 16000 | 63. | 66. | 0. | 112. | 117. |
| 20000 | 58. | 62. | o. | 110. | 113. |
| | | | | | |
| OCTAVE FREQ | | | | 1/0 | |
| 63 | 83. | 83. | 0. | 149. | 14/. |
| 125 | 78. | 60. | 0. | 147. | 149. |
| 250 | 83. | 82. | 0. | 144. | 149. |
| 500 | 84. | E5. | 0. | 145. | 151. |
| 1000 | 87. | 68. | 0. | 142. | 151. |
| 2000 | 86. | 87. | 0. | 138. | 148. |
| 4000 | 85. | 84. | 0. | 134. | 142. |
| 8000 | 79. | 79. | 0. | 128. | 136. |
| 16000 | 69. | 72. | 0. | 118. | 123. |

CONFIGURATION 40 PEPPERPOT DOME POWER SETTING 75 READING NO. 634

| | | MICROPHO | NE PCSITIC | N | |
|--------------|-------|-------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 75. | 82. | 0. | 140. | 141. |
| 63 | 80. | 63. | 0. | 148. | 142. |
| 80 | 65. | 79. | 0. | 140. | 145. |
| 100 | 71. | 78. | 0. | 143. | 146. |
| 125 | 74. | 75. | 0. | 141. | 146. |
| 160 | 74. | 77. | 0. | 143. | 144. |
| 200 | 77. | 77. | 0. | 141. | 145. |
| 250 | 77. | 78. | 0. | 141. | 145. |
| 315 | 80. | 78. | 0. | 141. | 147. |
| 400 | 78. | 77. | 0. | 142. | 145. |
| 500 | 78. | 75. | 0. | 144. | 146. |
| 630 | 82. | 82. | 0. | 136. | 148. |
| 800 | 81. | 81. | 0. | 135. | 147. |
| 1000 | 85. | e5 . | 0. | 140. | 148. |
| 1250 | 80. | 75. | 0. | 136. | 145. |
| 1600 | 81. | 80. | 0. | 135. | 144. |
| 2000 | 82. | .09 | 0. | 135. | 244. |
| 2500 | 81. | e1. | 0. | 134. | 142. |
| 3150 | 82. | .09 | 0. | 132. | 140. |
| 4000 | 81. | 78. | 0. | 130. | 138. |
| 5000 | 80. | 78. | 0. | 126. | 137. |
| 6300 | 78. | 76. | 0. | 128. | 135. |
| 8000 | 75. | 74. | 0. | 122. | 131. |
| 10000 | 72. | 72. | 0. | 120. | 125. |
| 12500 | 68. | 65. | 0. | 117. | 122. |
| 16000 | 65. | 67. | 0. | 114. | 118. |
| 20000 | 60. | 61. | 0. | 111. | 114. |
| OCTAVE FREQ | | | | | |
| 63 | 81. | 86. | 0. | 149. | 148. |
| 125 | 78. | £3. | 0. | 147. | 150. |
| 250 | 83. | 82. | 0. | 146. | 151. |
| 500 | 85. | 85. | 0. | 147. | 151. |
| 1000 | 87. | 87. | 0. | 142. | 152. |
| 2000 | 86. | 85. | 0. | 139. | 148. |
| 4000 | 86. | 84. | 0. | 135. | 143. |
| 8000 | 80. | 79. | 0. | 129. | 137. |
| 16000 | 70. | 72. | o. | 119. | 124. |
| | . • . | | | /- | |

CONFIGURATION 40
PEPPERPOT COME
POWER SETTING 100
READING NO. 635

| | | MICROPHO | NE PESITION | | |
|--------------|-----|------------|-------------|-------|-------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 76. | 68. | 0. | 142. | 142. |
| 63 | 81. | 88. | 0. | 150. | 142. |
| 80 | 70. | ٤7. | 0. | 140. | 146. |
| 100 | 72. | £7. | 0. | 145. | 147. |
| 125 | 75. | E4. | 0. | 143. | 148. |
| 160 | 74. | 13. | ₩ 0. | 144. | 145. |
| 200 | 77. | 33. | 0. | 144. | 147. |
| 250 | 78. | 81. | 0. | 142. | 147. |
| 315 | 80. | 80. | 0. | 143. | 148 - |
| 400 | 78. | 75. | 0. | 141. | 146. |
| 500 | 79. | .03 | 0. | 146 - | 146. |
| 630 | 81. | 81. | 0. | 137. | 148. |
| 800 | 81. | 80. | 0. | 134. | 147. |
| 1000 | 84. | 83. | 0. | 140. | 149. |
| 1250 | 81. | 75. | 0. | 138. | 147. |
| 1600 | 81. | .03 | 0. | 135. | 146. |
| 2000 | 82. | .08 | 0. | 135. | 145. |
| 2500 | 83. | 80. | 0. | 134. | 144. |
| 3150 | 84. | 81. | 0. | 132. | 141. |
| 4000 | 82. | 75. | 0. | 130. | 139. |
| 5000 | 81. | 79. | 0. | 130. | 138. |
| 6300 | 79. | 78. | 6. | 128. | 139. |
| 8000 | 77. | 76. | 0. | 1.23. | 132. |
| 10000 | 74. | 74. | 0. | 120. | 127. |
| 12500 | 71. | 71. | 0. | 120. | 125. |
| 16000 | 68. | 69. | 0. | 119. | 122. |
| 20000 | 65. | 64. | 0. | 118. | 121. |
| OCTAVE FREG | | | | | |
| 63 | 82. | 52. | 0. | 151. | 149. |
| 125 | 79. | 90. | 0. | 149. | 152. |
| 250 | 83. | 86. | 0. | 148. | 152. |
| 500 | 84. | 85. | 0. | 148. | 152. |
| 1000 | 87. | 86. | 0. | 143. | 153. |
| 2000 | 87. | 85. | 0. | 139. | 150. |
| 4000 | 87. | £5. | 0. | 136. | 144. |
| 8000 | 82. | 81. | 0. | 130. | 140. |
| 16000 | 73. | 74. | 0. | 124. | 128. |

CONFIGURATION 41
PLUG FLOW CANTED PRIMARY MOD A
POWER SETTING 10
READING NO. 651

| | | MICROPHON | E POSITION | | |
|--------------|-------|-------------|------------|------|-------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 65. | 65 . | 0. | 137. | 141. |
| 63 | 69. | 65. | 0. | 137. | 141. |
| 80 | 65. | 65. | 0. | 142. | 145. |
| 100 | 65. | 66. | 0. | 144. | 147. |
| 125 | 66. | 67. | 0. | 138. | 144. |
| 160 | 68. | 70. | 0. | 141. | 142. |
| 200 | 68. | 67. | 0. | 136. | 141. |
| 250 | 69. | 69. | 0. | 137. | 142. |
| 315 | 73. | 72. | 0. | 140. | 144. |
| 400 | 74. | 73. | 0. | 142. | 142. |
| 500 | 75. | 75. | 0. | 136. | 143. |
| 630 | 77. | 78. | 0. | 131. | 142. |
| 800 | 76. | 78. | 0. | 132. | 141. |
| 1000 | 75. | 76. | 0. | 133. | 140 - |
| 1250 | 75. | 74. | 0. | 130. | 140. |
| 1600 | 76. | 75. | 0. | 130. | 139. |
| 2000 | 74. | 74. | 0. | 129. | 138. |
| 2500 | 75. | 74. | 0. | 129. | 136. |
| 3150 | 74. | 74. | 0. | 129. | 134. |
| 4000 | 75. | 76. | v. | 125. | 133. |
| 5000 | 73. | 72. | 0. | 123. | 131. |
| 6300 | 70. | 71. | 0. | 121. | 128. |
| 8000 | 67. | €8. | 0. | 119. | 124. |
| 10000 | 64. | 65. | 0. | 115. | 121. |
| 12500 | 59. | 61. | 0. | 112. | 117. |
| 16000 | 54. | 56. | 0. | 109. | 113. |
| 20000 | 50. | 50. | 0. | 107. | 111. |
| OCTAVE FREQ | | | | | |
| 63 | 72. | 72. | 0. | 144. | 148. |
| 125 | 71. | 73. | 0. | 146. | 150. |
| 250 | 75. | 75. | 0. | 143. | 147. |
| 500 | 80. | 81. | 0. | 143. | 147. |
| 1000 | 80. | £1. | 0. | 137. | 145. |
| 2000 | 80. | 79. | 0. | 134. | 143. |
| 4000 | 79. | 75. | 0. | 131. | 138. |
| 8000 | 72. | 73. | 0. | 124. | 130. |
| 16000 | 61. | 62. | 0. | 115. | |
| 10000 | 0.1.0 | 620 | U • | 1120 | 119. |

CONFIGURATION 41
PLUG FLOW CANTED PRIMARY MOD A
POWER SETTING 25
READING NO. 653

| | | MICROPHE | NE POSITION | · | |
|--------------|-----|----------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 66. | 65. | 0. | 138. | 142. |
| 63 | 68. | 66. | 0. | 137. | 142. |
| 80 | 68. | 66. | 0. | 144. | 146. |
| 100 | 67. | 66. | 0. | 146. | 146. |
| 125 | 68. | 68. | 0. | 140. | 145. |
| 160 | 69. | 70. | 0. | 141. | 143. |
| 200 | 70. | 69. | 0. | 136. | 141. |
| 250 | 70. | 70. | 0- | 138. | 142. |
| 315 | 74. | 73. | 0. | 142. | 145. |
| 400 | 75. | 74. | 0. | 143. | 143. |
| 500 | 76. | 77. | 0. | 140. | 144. |
| 630 | 79. | 79. | 0. | 131. | 142. |
| 800 | 78. | 79. | 0. | 133. | 142. |
| 1000 | 78. | 78. | 0. | 135. | 141. |
| 1250 | 77. | 76. | 0. | 131. | 140. |
| 1600 | 77. | 77. | 0. | 131. | 140. |
| 2000 | 76. | 75. | 0. | 131. | 140. |
| 2500 | 76. | 76. | 0- | 130. | 137. |
| 3150 | 76. | 76. | 0. | 129. | 135. |
| 4000 | 76. | 78. | 0. | 125. | 134. |
| 5000 | 75. | 76. | 0. | 123. | 133. |
| 6300 | 74. | 74. | 0. | 122. | 128. |
| 8000 | 76. | 72. | 0. | 119. | 124. |
| 10000 | 70. | 65. | 0. | 115. | 121. |
| 12500 | 65. | 65. | 0. | 111. | 117. |
| 16000 | 62. | 62. | 0. | 108. | 113. |
| 20000 | 55. | 55. | 0. | 107. | 110. |
| OCTAVE FREQ | | | | | |
| 63 | 72. | 70. | 0. | 146. | 149. |
| 125 | 73. | 73. | 0. | 148. | 150. |
| 250 | 77. | 76. | 0. | 144. | 148. |
| 500 | 82. | 82. | 0. | 145. | 148. |
| 1000 | 82. | 83. | 0. | 138. | 146. |
| 2000 | 81. | 81. | 0. | 135. | 144. |
| 4000 | 80. | 82. | 0. | 131. | 139. |
| 8000 | 79. | 77. | 0. | 124. | 130. |
| 16000 | 67. | 67. | 0. | 114. | 119. |

CONFIGURATION 41
PLUG FLOW CANTED PRIMARY MOD A
POWER SETTING 40
READING NO. 654

| | | MICROPHO | NE POSITION | | |
|--------------|-----|-------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 65. | 66. | 0. | 138. | 142. |
| 63 | 68. | 70. | 0. | 139. | 142. |
| 80 | 65. | 65. | 0. | 143. | 145. |
| 100 | 66. | 67. | 0. | 145. | 146. |
| 125 | 68. | 69. | 0. | 140. | 145. |
| 160 | 69. | 70. | 0. | 142. | 144. |
| 200 | 71. | 71. | 0. | 138. | 143. |
| 250 | 71. | 72. | 0. | 139. | 143. |
| 315 | 74. | 73. | 0. | 141. | 145. |
| 400 | 76. | 75. | 0. | 145. | 145. |
| 500 | 78. | 78. | 0. | 144. | 146. |
| 630 | 81. | 81. | 0. | 133. | 144. |
| 800 | 79. | 80. | 0. | 134. | 143. |
| 1000 | 79. | .0 3 | 0. | 137. | 142. |
| 1250 | 79. | 78. | 0. | 133. | 141. |
| 1600 | 78. | 78. | 0. | 132. | 141. |
| 2000 | 77. | 77. | 0. | 132. | 140. |
| 2500 | 78. | 78. | 0. | 131. | 139. |
| 31 50 | 77. | 78. | 0. | 131. | 135. |
| 4000 | 77. | 75. | 0. | 127. | 135. |
| 5000 | 82. | 82. | 0. | 124. | 135. |
| 6300 | 74. | 74. | 0. | 124. | 130. |
| 8000 | 77. | 74. | 0. | 120. | 125. |
| 10000 | 80. | 78. | 0. | 116. | 123. |
| 12500 | 66. | 67. | 0. | 112. | 119. |
| 16000 | 64. | 63. | 0. | 109. | 114. |
| 20000 | 57. | 56. | 0. | 107. | 111. |
| OCTAVE FREQ | | | | | |
| 63 | 71. | 72. | 0. | 145. | 148. |
| 125 | 73. | 74. | 0. | 148. | 150. |
| 250 | 77. | 17. | 0. | 144. | 149. |
| 500 | 84. | 83. | 0. | 148. | 150. |
| 1000 | 84. | 84. | 0. | 140. | 147. |
| 2000 | 82. | £2. | 0. | 136. | 145. |
| 4000 | 84. | £5. | 0. | 133. | 140. |
| 8000 | 82. | 81. | 0. | 126. | 132. |
| 16000 | 68. | é9. | 0. | | |
| 10000 | 00. | 67. | V• | 115. | 121. |

CONFIGURATION 41
PLUG FLOW CANTED PRIMARY MOD A
POWER SETTING 55
READING NO. 655

| | | MICROPHO | NE POSITION | | |
|--------------|------------|-------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 70. | 71. | 0. | 140. | 144. |
| 63 | 78. | 75. | 0. | 139. | 142. |
| 80 | 67. | 68. | 0. | 142. | 146. |
| 100 | 70. | 70. | 0. | 146. | 148. |
| 125 | 78. | 78. | 0. | 142. | 146. |
| 160 | 76. | 75. | 0. | 143. | 144. |
| 200 | 79. | 77. | 0. | 141. | 144. |
| 250 | 75. | 76. | 0. | 141. | 144. |
| 315 | 79. | 78. | 0. | 142. | 146. |
| 400 | 78. | 78. | 0. | 145. | 146. |
| 500 | 79. | 79. | 0. | 145. | 147. |
| 630 | 83. | 83. | 0. | 135. | 147. |
| 800 | 81. | 81. | 0. | 136. | 145. |
| 1000 | 81. | e.13 | 0. | 139. | 143. |
| 1250 | 82. | .08 | 0. | 135. | 143. |
| 1600 | 80. | .0 9 | 0. | 134. | 142. |
| 2000 | 80. | .03 | 0. | 134. | 142. |
| 2500 | 84. | 80. | 0. | 133. | 141. |
| 3150 | 79. | 79. | Q. | 131. | 137. |
| 4000 | 79. | 79. | 0. | 129. | 136. |
| 5000 | 78. | 78. | 0. | 125. | 136. |
| 6300 | 75. | 76. | 0. | 125. | 133. |
| 8000 | 78. | 74. | 0. | 122. | 128. |
| 10000 | 75. | 73. | 0. | 118. | 124. |
| 12500 | 69. | 69. | 0. | 114. | 120. |
| 16000 | 66. | 65. | 0. | 109. | 116. |
| 20000 | 60. | 58. | 0. | 107. | 112. |
| OCTAVE FREQ | | | | | |
| 63 | 79. | 80. | 0. | 145. | 149. |
| 125 | 81. | 80. | 0. | 149. | 151. |
| 250 | 83. | 82. | 0. | 146. | 150. |
| 500 | E5. | ٤5. | 0. | 148. | 151. |
| 1000 | 86. | E5. | 0. | 142. | 149. |
| 2000 | 87. | £5. | 0. | 138. | 146. |
| 4000 | 83. | 83. | 0. | 134. | 141. |
| 8000 | 81. | 79. | 0. | 127. | 135. |
| 16000 | 71. | 71. | 0. | 116. | 122. |

CONFIGURATION 41
PLUG FLJW CANTED PRIMARY MOD A
POWER SETTING 75
READING NO. 656

| | | MICROPHO | NE POSITION | | |
|--------------|-------------|-------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 72. | 72. | 0. | 141. | 144. |
| 63 | 80. | 81. | 0. | 142. | 143. |
| 80 | 68. | 68. | 0. | 143. | 146. |
| 100 | 70. | 71. | 0. | 147. | 148. |
| 125 | 78. | 77. | 0. | 142. | 146. |
| 160 | 74. | 74. | 0. | 145. | 145. |
| 200 | 77. | 76. | 0. | 143. | 146. |
| 250 | 77. | 77. | 0. | 142. | 146. |
| 315 | 79. | 75. | 0. | 145. | 148. |
| 400 | 78. | 77. | 0. | 147. | 147. |
| 500 | 79. | 75. | 0. | 148. | 147. |
| 630 | £5. | 86. | 0. | 138. | 149. |
| 800 | 81. | ٤2. | 0. | 138. | 146. |
| 1000 | 81. | 82. | 0. | 141. | 145. |
| 1250 | 83. | 81. | 0. | 138. | 144. |
| 1600 | 81. | 80. | 0. | 138. | 143. |
| 2000 | 81. | 81. | 0. | 136. | 143. |
| 2500 | E5 . | ٤1. | 0. | 135. | 141. |
| 3150 | 80. | 80. | 0. | 132. | 139. |
| 4000 | 78. | 81. | 0. | 130. | 138. |
| 5000 | 78. | 79. | 0. | 125. | 136. |
| 6300 | 76. | 77. | 0. | 127. | 134. |
| 8000 | 80. | 76. | 0. | 123. | 129. |
| 10000 | 79. | 75. | 0. | 119. | 125. |
| 12500 | 72. | 71. | 0. | 119. | 123. |
| 16000 | 68. | 66. | 0. | 117. | 121. |
| 20000 | 64. | 61. | 0. | 117. | 120. |
| | | | | | |
| OCTAVE FREQ | | | | | |
| 63 | 81. | 82. | 0. | 147. | 149. |
| 125 | 80. | 79. | 0. | 150. | 151. |
| 250 | 83. | 82. | 0. | 148. | 152. |
| 500 | e7. | e7. | 0. | 151. | 153. |
| 1000 | 87. | . | 0. | 144. | 150. |
| 2000 | 88. | E5 . | 0. | 141. | 147. |
| 4000 | 84. | ٤5. | 0. | 135. | 143. |
| 8000 | 83. | 81. | 0. | 129. | 136. |
| 16000 | 74. | 73. | 0. | 123. | 126. |

CONFIGURATION 41
PLUG FLOW CANTED PRIMARY MOD A
POWER SETTING 100
READING NO. 657

| | | MICROPHE | NE PCSITIC | N ³ | |
|--------------|-----|-------------|------------|----------------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 72. | 72. | O. | 143. | 147. |
| 63 | 80. | 80. | 0. | 140. | 145. |
| 80 | 68. | 67. | 0. | 142. | 146. |
| 100 | 70. | 71. | 0. | 146. | 148. |
| 125 | 77. | 77. | 0. | 143. | 149. |
| 160 | 75. | 75. | 0. | 145. | 148. |
| 200 | 77. | 77. | O. | 145. | 148. |
| 250 | 77. | 77. | 0. | 143. | 146. |
| 315 | 79. | 79. | 0. | 146. | 148. |
| 400 | 78. | 77. | 0. | 145. | 147. |
| 500 | 82. | 81. | 0. | 150. | 148. |
| 630 | 86. | e5 . | 0. | 140. | 150. |
| 800 | 82. | 82. | 0. | 138. | 146. |
| 1000 | 82. | E2. | 0. | 141. | 147. |
| 1250 | 83. | 83. | 0. | 139. | 146. |
| 1600 | 83. | 82. | 0- | 135. | 145. |
| 2000 | 82. | 82. | 0. | 135. | 144. |
| 2500 | 82. | 84. | 0. | 133. | 143. |
| 3150 | 82. | 81. | 0. | 132. | 141. |
| 4000 | 81. | ٤1. | 0. | 130. | 139. |
| 5000 | 81. | 79. | 0. | 127. | 137. |
| 6300 | 79. | 79. | 0. | 128. | 136. |
| 8000 | 82. | 77. | 0. | 121. | 131. |
| 10000 | 82. | 76. | 0. | 119. | 126. |
| 12500 | 79. | 72. | 0. | 119. | 124. |
| 16000 | 76. | 70. | 0. | 117. | 122. |
| 20000 | 69. | 63. | 0. | 117. | 120. |
| OCTAVE FREQ | | | | | |
| 63 | 81. | e1. | 0. | 147. | 151. |
| 125 | 80. | 80. | 0. | 150. | 153. |
| 250 | 82. | £3 . | 0. | 150. | 152. |
| 500 | 88. | 87. | 0. | 152. | 153. |
| 1000 | 87. | 87. | 0. | 144. | 151. |
| 2000 | 87. | 88. | 0. | 139. | 149. |
| 4000 | 86. | 85. | 0. | 135. | 144. |
| 8000 | 86. | 82. | 0. | 129. | 138. |
| 16000 | 81. | 74. | 0. | 123. | 127. |

CONFIGURATION 42 T63-A-5A BASELINE (1ST REPEAT) POWER SETTING 10 READING NO. 658

| | | MICROPHO | NE POSITION | | |
|--------------|-----|------------|-------------|----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 68. | 65. | 69. | v. | 0. |
| 63 | 69. | 69. | 68. | 0. | 0. |
| 80 | 66. | 66. | 68. | 0. | 0. |
| 100 | 66. | 68. | 70. | 0. | 0. |
| 125 | 69. | 65. | 71. | 0. | 0. |
| 160 | 70. | 69. | 71. | 0. | 0. |
| 200 | 69. | 68. | 70. | 0. | 0. |
| 250 | 71. | 70. | 72. | 0. | 0. |
| 315 | 73. | 73. | 76. | 0. | 0. |
| 400 | 74. | 72. | 76. | 0. | 0. |
| 500 | 75. | 76. | 77. | 0. | 0. |
| 630 | 76. | 77. | 77. | 0. | 0. |
| 800 | 76. | 76. | 77. | 0. | 0. |
| 1000 | 77. | 76. | 76. | 0. | 0. |
| 1250 | 76. | 75. | 75. | 0. | 0. |
| 1600 | 76. | 76. | 15. | 0. | 0. |
| 2000 | 75. | 75. | 75. | o. | 0. |
| 2500 | 76. | 75. | 75. | 0. | 0. |
| 3150 | 77. | 76. | 75. | 0. | 0. |
| 4000 | 78. | 76. | 75. | 0. | 0. |
| 500 0 | 73. | 71. | 71. | v. | 0. |
| 6300 | 71. | 70. | 68. | 0. | 0. |
| 8000 | 68. | 68. | 66. | 0. | 0. |
| 10000 | 63. | 64. | 61. | 0. | 0. |
| 12500 | 58. | 58. | 56. | 0. | 0. |
| 16000 | 54. | 53. | 53. | 0. | 0. |
| 20000 | 50. | 49. | 51. | v. | 0. |
| CCTAVE FREQ | | | | | |
| 63 | 73. | 72. | 73. | 0. | 0. |
| 125 | 73. | 73. | 75. | 0. | 0. |
| 250 | 76. | 76. | 78. | 0. | 0. |
| 500 | 80. | 60. | 81. | 0. | o. |
| 1000 | 81. | 80. | 81. | 0. | 0. |
| 2000 | 80. | 80. | 80. | 0. | 0. |
| 4000 | 81. | ٤٥. | 79. | 0. | o. |
| 8000 | 73. | 73. | 71. | 0. | 0. |
| 16000 | 60. | 60. | 59. | 0. | 0. |

CONFIGURATION 42 T63-A-5A BASELINE (1ST REPEAT) POWER SETTING 25 READING NO. 659

| | | MICROPHO | NE PCSITICA | | |
|--------------|-----|------------|-------------|----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 66. | 66. | 67. | 0. | 0. |
| 63 | 70. | 65. | 70. | 0. | 0. |
| 80 | 68. | 68. | 69. | 0. | 0. |
| 100 | 67. | 68. | 70. | 0. | 0. |
| 125 | 69. | 68. | 70. | 0. | 0. |
| 160 | 70. | 70. | 72. | 0. | 0. |
| 200 | 69. | 70. | 71. | 0. | 0. |
| 250 | 71. | 71. | 72. | 0. | 0. |
| 315 | 72. | 13. | 75. | 0. | 0. |
| 400 | 73. | 72. | 74. | 0. | 0. |
| 500 | 75. | 76. | 76. | 0. | 0. |
| 630 | 77. | 78. | 78. | 0. | 0. |
| 800 | 77. | 77. | 78. | 0. | 0. |
| 1000 | 77. | 77. | 79. | 0. | 0. |
| 1250 | 76. | 76. | 76. | 0. | 0. |
| 1600 | 77. | 77. | 77. | 0. | 0. |
| 2000 | 77. | 77. | 77. | 0. | 0. |
| 2500 | 77. | 77. | 77. | 0. | 0. |
| 3150 | 78. | 78. | 77. | 0. | 0. |
| 4000 | 78. | 78. | 77. | 0. | 0. |
| 5000 | 75. | 74. | 72. | 0. | 0. |
| 6300 | 72. | 72. | 70. | 0. | 0. |
| 8000 | 69. | 65. | 67. | 0. | 0. |
| 10000 | 64. | 65. | 62. | 0. | 0. |
| 12500 | 59. | 59. | 57. | 0. | 0. |
| 16000 | 55. | 54. | 54. | 0. | 0. |
| 20000 | 50. | 50. | 51. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 73. | 74. | 0. | 0. |
| 125 | 74. | 74. | 76. | 0. | 0. |
| 250 | 76. | 76. | 78. | 0. | 0. |
| 500 | 80. | e1. | 81. | 0. | 0- |
| 1000 | 81. | 81. | 83. | 0. | 0. |
| 2000 | 82. | 82. | 82. | 0. | 0. |
| 4000 | 82. | 82. | 81. | 0. | 0. |
| 8000 | 74. | 74. | 12. | 0. | 0. |
| 16000 | 61. | 61. | 59. | 0. | 0. |

CONFIGURATION 42 T63-A-5A BASELINE (1ST REPEAT) POWER SETTING 40 READING NO. 660

| | | MICROPHO | NE POSITION | i | |
|--------------|------|------------|-------------|----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 69. | 70. | 0. | 0. |
| 63 | 70. | 70. | 71. | 0. | 0. |
| 80 | 69. | 70. | 71. | 0. | 0. |
| 100 | 69. | 71. | 72. | 0. | 0. |
| 125 | 69. | 70. | 71. | 0. | 0. |
| 160 | 71. | 69. | 72. | 0. | 0. |
| 200 | 71. | 70. | 72. | 0. | 0. |
| 250 | 72. | 72. | 73. | 0. | 0. |
| 315 | 73. | 74. | 76. | 0. | 0. |
| 400 | 73. | 73. | 76. | 0. | 0. |
| 500 | 76. | 77. | 77. | 0. | 0. |
| 630 | 78. | 75. | 78. | 0. | 0. |
| 800 | 78. | 78. | 81. | 0. | 0. |
| 1000 | 79. | 79. | 80. | 0. | 0. |
| 1250 | 78. | 78. | 77. | 0. | 0. |
| 1600 | 80. | eo. | 79. | 0. | 0. |
| 2000 | 80. | .09 | 80. | 0. | 0. |
| 2500 | 79. | 79. | 78. | 0. | 0. |
| 3150 | 81. | 81. | 80. | 0. | 0. |
| 4000 | 80. | 81. | 80. | 0. | 0. |
| 5000 | 78. | 76. | 76. | 0. | 0. |
| 6300 | 74. | 75. | 12. | 0. | 0. |
| 8000 | 74. | 71. | 70. | 0. | 0. |
| 10000 | 68. | 68. | 66. | 0. | 0. |
| 12500 | 63. | 63. | 60. | 0. | 0. |
| 16000 | 59. | 56. | 56. | 0. | 0. |
| 20000 | 54. | 52. | 51. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 74. | 74. | 75. | 0. | 0. |
| 125 | 75. | 75. | 76. | 0. | 0. |
| 250 | 77. | 77. | 79. | 0. | 0. |
| 500 | 81. | 82. | 82. | 0. | 0. |
| 1000 | 83. | 83. | 84. | 0. | 0. |
| 2000 | 84 - | 84. | 84. | 0. | 0. |
| 4000 | 85. | 85. | 84. | 0. | 0. |
| 8000 | 78. | 77. | 75. | 0. | 0. |
| 16000 | 65. | 64. | 62. | 0. | 0. |

CONFIGURATION 42 T63-A-5A BASELINE (1ST REPEAT) POWER SETTING 55 READING NO. 661

| | | MICROPHO | ME POSITION | | |
|--------------|-------------|------------|-------------|----|-----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 71. | 70. | 62. | 0. | 0. |
| 63 | 77. | 78. | 69. | 0. | 0. |
| 80 | 70. | 69. | 62. | 0. | 0. |
| 100 | 70. | 70. | 63. | 0. | 0. |
| 125 | 76. | 72. | 66. | 0. | 0 • |
| 160 | 73. | 72. | 65. | 0. | 0. |
| 200 | 73. | 74. | 65. | 0. | 0. |
| 250 | 76. | 75. | 66. | 0. | 0. |
| 315 | 77. | 78. | 69. | 0. | 0. |
| 400 | 76. | 77. | 68. | 0. | 0. |
| 500 | 78. | 75. | 71. | 0. | 0. |
| 630 | .03 | 81. | 70. | 0. | 0. |
| 800 | 79. | 80. | 70. | 0. | 0. |
| 1000 | 81. | 80. | 71. | 0. | 0. |
| 1250 | 85. | e7. | 81. | 0. | 0. |
| 1600 | 90. | 87. | £6. | 0. | 0. |
| 2000 | 83. | 82. | 74. | 0. | 0. |
| 2500 | 82. | 84. | 74. | 0. | 0. |
| 3150 | 83. | 82. | 75. | 0. | 0. |
| 4000 | 81. | 81. | 72. | 0. | 0. |
| 5000 | 80. | 78. | 69. | 0. | 0- |
| 6300 | 76. | 77. | 66. | 0. | 0. |
| 8000 | 76. | 75. | 65. | 0. | 0. |
| 10000 | 71. | 71. | 59. | 0. | 0. |
| 12500 | 64. | £4. | 54. | 0. | 0. |
| 16000 | 60. | 58. | 51. | 0. | 0. |
| 20000 | 55. | 53. | 50. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 79. | 79. | 70. | 0. | 0. |
| 125 | 78. | 76. | 70. | 0. | 0. |
| 250 | 80. | 81. | 72. | 0. | 0. |
| 500 | £3 . | E4. | 75. | 0. | 0. |
| 1000 | 87. | 88. | 82. | 0. | 0. |
| 2000 | 91. | 90. | 87. | 0. | 0. |
| 4000 | 86. | 85. | 77. | 0. | 0. |
| 8000 | 80. | 80. | 69. | 0. | 0. |
| 16000 | 66. | 65. | 57. | 0. | 0. |

CONFIGURATION 42 T63-A-5A BASELINE (1ST REPEAT) POWER SETTING 75 READING NO. 662

| | | MICROPHO | NE POSITION | | |
|--------------|-------------|-------------|-------------|----|-----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 72. | 72. | 73. | 0. | 0 - |
| 63 | 78. | 75. | 81. | 0. | 0. |
| 80 | 68. | 70. | 71. | 0. | 0. |
| 100 | 71. | 73. | 74. | 0. | 0. |
| 125 | 76. | 72. | 76. | 0. | 0. |
| 160 | 74. | 74. | 75. | 0. | 0. |
| 200 | 74. | 75. | 76. | 0. | 0. |
| 250 | 77. | 76. | 77. | 0. | 0. |
| 315 | 78. | 78. | 80. | 0. | 0. |
| 400 | 78. | 77. | 79. | 0. | 0. |
| 500 | 81. | 82. | 81. | 0. | 0. |
| 630 | 81. | 83. | 80. | 0. | 0. |
| 800 | 80. | 81. | 81. | 0. | 0. |
| 1000 | 81. | 81. | 81. | 0. | 0. |
| 1250 | 85. | 84. | 95. | 0. | 0. |
| 1600 | 92. | 91. | 56. | 0. | 0. |
| 2000 | 86. | 86. | 82. | 0. | 0. |
| 2500 | .38 | 84. | 85. | 0. | 0. |
| 3150 | 86. | .99 | 86. | 0. | 0- |
| 4000 | 84. | 85. | 82. | 0. | 0. |
| 5000 | 81. | 81. | 80. | 0. | 0. |
| 6300 | 78. | 80. | 79. | 0. | 0. |
| 8000 | 77. | 76. | 77. | 0. | 0. |
| 10000 | 70. | 71. | 70. | 0. | 0. |
| 12500 | 66. | 67. | 65. | 0. | |
| 16000 | 62. | 62. | 62. | 0. | 0. |
| 20000 | 60. | 59. | 60. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 79. | 80. | 82. | 0. | 0. |
| 125 | 79. | 7e. | 80. | 0. | 0. |
| 250 | 81. | 81. | 83. | 0. | 0. |
| 500 | £5 . | 86. | £5. | 0. | 0. |
| 1000 | 87. | 87. | 95. | 0. | 0. |
| 2000 | 94. | 93 . | 96. | 0. | 0. |
| 4000 | 89. | 90. | 88. | 0. | 0. |
| 8000 | 81. | 82. | 81. | 0. | 0. |
| 16000 | 68. | 69. | 68. | 0. | 0. |

CONFIGURATION 42 T63-A-5A BASELINE (1ST REPEAT) POWER SETTING 100 READING NO. 663

| | | MICROPHO | NE POSITION | | |
|--------------|-----|-------------|-------------|----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 72. | 74. | 75. | 0. | 0. |
| 63 | 76. | 78. | 80. | 0. | 0. |
| 80 | 68. | 71. | 72. | 0. | 0. |
| 100 | 71. | 72. | 74. | 0. | 0. |
| 125 | 74. | 73. | 76. | 0. | 0. |
| 160 | 74. | 75. | 76. | 0. | 0. |
| 200 | 75. | 75. | 77. | 0. | 0. |
| 250 | 78. | 77. | 78. | 0. | 0. |
| 315 | 79. | 79. | 81. | 0. | 0. |
| 400 | 77. | 78. | 79. | 0. | 0. |
| 500 | 79. | .03 | 82. | 0. | 0. |
| 630 | 80. | 81. | 81. | 0. | 0. |
| 800 | 81. | 81. | 81. | 0. | 0. |
| 1000 | 82. | 82. | 83. | 0. | 0. |
| 1250 | 91. | 88. | 94. | 0. | 0. |
| 1600 | 94. | 91. | 99. | 0. | 0. |
| 2000 | 82. | E4 . | 83. | 0. | 0. |
| 2500 | 85. | E5 • | 87. | 0. | 0. |
| 3150 | 86. | 87. | 88. | 0. | 0. |
| 4000 | 84. | E4. | 85. | 0. | 0. |
| 5000 | 83. | 82. | 82. | 0. | 0. |
| 6300 | 80. | 81. | 80. | 0. | 0. |
| 8000 | 77. | 77. | 77. | 0. | 0. |
| 10000 | 71. | 72. | 71. | 0. | 0. |
| 12500 | 67. | 68. | 67. | 0. | 0. |
| 16000 | 63. | 62. | 63. | 0- | 0. |
| 20000 | 60. | 59. | 60. | v. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 78. | .0 9 | 82. | 0. | 0. |
| 125 | 78. | 78. | 80. | 0. | 0. |
| 250 | 82. | 82. | 84. | 0. | 0. |
| 500 | 84. | 85. | 86. | 0. | 0- |
| 1000 | 92. | 90. | 95. | 0. | 0. |
| 2000 | 95. | 93. | 99. | 0. | 0. |
| 4000 | 89. | 90. | 90. | 0. | 0. |
| 8000 | 82. | E3 . | 82. | 0. | 0. |
| 16000 | 69. | 69. | 69. | 0. | 0. |

CONFIGURATION 43
FINAL PRECHAMBER WALL FUEL FILM INITIAL DESIGN
POWER SETTING 10
READING NO. 684

| | | MICROPHO | NE POSITION | | |
|--------------|-----|----------|-------------|----------|----------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 67. | 0. | 71. | 0. | Ō. |
| 63 | 70. | 0. | 84. | 0. | 0. |
| 80 | 68. | C. | 61. | 0. | 0. |
| 100 | 68. | 0. | 54. | 0. | 0. |
| 125 | 70. | 0. | 59. | 0. | 0. |
| 160 | 69. | 0. | 67. | 0. | 0. |
| 200 | 68. | 0. | 72. | 0. | 0. |
| 250 | 70. | 0. | 61. | 0. | 0. |
| 315 | 72. | 0. | 70. | 0. | 0. |
| 400 | 72. | 0. | 60. | 0. | 0. |
| 500 | 74. | 0. | 67. | 0. | 0. |
| 630 | 75. | 0. | 70. | 0. | 0. |
| 800 | 75. | 0. | 63. | 0. | 0. |
| 1000 | 76. | 0. | 69. | 0. | 0. |
| 1250 | 75. | 0. | 65. | 0. | 0. |
| 1600 | 77. | 0. | 65. | 0. | 0. |
| 2000 | 76. | 0. | 65. | 0. | 0. |
| 2500 | 76. | 0. | 64. | 0. | 0. |
| 3150 | 77. | 0. | 64. | 0. | 0. |
| 4000 | 77. | 0. | 63. | 0. | 0. |
| 5000 | 76. | 0. | 60. | 0. | 0. |
| 6300 | 72. | 0. | 59. | 0. | 0. |
| 8000 | 69. | 0. | 57. | 0. | 0. |
| 10000 | 66. | 0. | 54. | 0. | 0- |
| 12500 | 62. | 0. | 54. | 0. | 0. |
| 16000 | 57. | 0. | 51. | 0. | 0. |
| 20000 | 52. | 0. | 51. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 0. | 84. | 0. | • |
| 125 | 74. | 0. | 68. | | 0. |
| 250 | 75. | 0. | 74. | 0. | 0. |
| 500 | 79. | 0. | 72. | 0. | 0. |
| 1000 | £0. | | | 0. | 0. |
| 2000 | 81. | 0. 0. | 71. 69. | 0. 0. | 0. |
| 4000 | 81. | 0. | 67 . | 0. | 0. 0. |
| 8000 | 74. | 0. | 62. | 0. | 0. |
| 16000 | 64. | | 57 . | | |
| 10000 | 674 | 0. | 21. | 0. | 0. |

CONFIGURATION 43
FINAL PRECHAMBER WALL FUEL FILM INITIAL DESIGN
POWER SETTING 25
READING NO. 665

| | | MICHOPHO | NE POSITION | | |
|--------------|-----|----------|-------------|----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 67. | 0. | 66. | 0. | 0. |
| 63 | 69. | 0. | 70. | 0. | 0. |
| 80 | 65. | 0. | 64. | 0. | 0. |
| 100 | 67. | 0. | 65. | 0. | 0. |
| 125 | 70. | 0. | 70. | 0. | 0. |
| 160 | 69. | 0. | 70. | 0. | 0. |
| 200 | 70. | 0. | 70. | v. | 0. |
| 250 | 74. | 0. | 74. | 0. | 0. |
| 315 | 75. | 0. | 76. | 0. | 0. |
| 400 | 74. | 0. | 75. | 0. | 0. |
| 500 | 76. | 0. | 77. | 0. | 0. |
| 630 | 77. | 0. | 77. | 0. | 0. |
| 800 | 77. | 0. | 77. | 0. | 0. |
| 1000 | 77. | 0. | 77. | 0. | 0. |
| 1250 | 77. | 0. | 74. | 0. | 0. |
| 1600 | 79. | 0. | 77. | 0. | 0. |
| 2000 | 79. | 0. | 77. | 0. | 0. |
| 2500 | 79. | 0. | 76. | 0. | 0. |
| 3150 | 80. | 0. | 77. | 0. | 0. |
| 4000 | 79. | G. | 76. | 0. | 0. |
| 5000 | 78. | 0. | 74. | 0. | 0. |
| 6300 | 74. | 0. | 70. | 0. | 0. |
| 8000 | 72. | 0. | 68. | 0. | 0. |
| 10000 | 68. | 0. | 55 . | 0. | 0. |
| 12500 | 64. | 0. | 62. | 0. | 0. |
| 16000 | 60. | 0. | 58. | 0. | 0. |
| 20000 | 54. | 0. | 54. | 0. | G. |
| OCTAVE FREQ | | | | | |
| 63 | 72. | 0. | 72. | 0. | 0. |
| 125 | 74. | 0. | 74. | 0. | 0. |
| 250 | 78. | 0. | 79. | 0. | O. |
| 500 | 81. | 0. | 81. | 0. | 0. |
| 1000 | 82. | 0. | e1. | 0. | 0. |
| 2000 | 84. | 0. | 81. | 0. | 0. |
| 4000 | 84. | 0. | 81. | 0. | 0. |
| 8000 | 77. | 0. | 73. | 0. | 0. |
| 16000 | 66. | 0. | 64. | 0. | 0. |
| | | | | | |

CONFIGURATION 43
FINAL PRECHAMBER WALL FUEL FILM INITIAL DESIGN
POWER SETTING 25
READING NO. 666

| | | MICROPHO | NE POSITION | | |
|--------------|-------------|----------|-------------|----|-----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 70. | C. | 68. | 0. | 0. |
| 63 | 69. | C. | 69. | 0. | 0. |
| 80 | 65. | 0. | 65. | 0. | 0. |
| 100 | 68. | 0. | 67. | 0. | 0. |
| 125 | 69. | 0. | 69. | 0. | 0. |
| 160 | 70. | 0. | 71. | 0. | 0. |
| 200 | 71. | 0. | 70. | 0. | 0. |
| 250 | 74. | 0. | 74. | 0- | 0. |
| 315 | 75. | 0. | 76. | 0. | 0. |
| 400 | 74. | 0. | 75. | 0. | 0. |
| 500 | 77. | 0. | 77. | 0. | 0 - |
| 630 | 78. | 0. | 78. | 0. | 0. |
| 800 | 78. | 0. | 77. | 0. | 0. |
| 1000 | 78. | 0. | 77. | 0. | 0. |
| 1250 | 79. | 0. | 75. | 0. | 0. |
| 1600 | 81. | Q. | 78. | 0. | 0. |
| 2000 | 80. | 0. | 79. | 0. | 0. |
| 2500 | 79. | 0. | 77. | 0. | 0. |
| 3150 | 82. | 0. | 78. | 0. | 0. |
| 4000 | 79. | 0. | 77. | 0. | 0. |
| 5000 | 79. | 0. | 75. | 0. | 0. |
| 6300 | 75. | 0. | 72. | 0. | 0. |
| 8000 | 73. | 0. | 69. | 0. | 0. |
| 10000 | 71. | 0. | 67. | 0. | 0. |
| 12500 | 66. | 0• | 64. | 0. | 0. |
| 16000 | 62. | 0. | 61. | 0. | 0. |
| 20000 | 56. | a. | 56. | 0. | 0. |
| | | | | | |
| OCTAVE FREQ | | _ | | - | |
| 63 | 73. | 0. | 72. | 0. | 0. |
| 125 | 74. | 0. | 74. | 0. | 0. |
| 250 | 78. | 0. | 79. | 0. | 0. |
| 500 | 81. | 0. | 82. | 0. | 0. |
| 1000 | 83. | 0. | 81. | 0. | 0. |
| 2000 | 85 • | 0. | 83. | 0. | 0. |
| 4000 | 85. | 0. | 82. | 0. | 0. |
| 8000 | 78. | 0. | 75. | 0. | 0. |
| 16000 | 68. | 0. | 66. | 0. | 0. |

CONFIGURATION 43
FINAL PRECHAMBER WALL FLEL FILM INITIAL DESIGN
POWER SETTING 55
READING NO. 687

| | | MICROPHO | NE POSITION | | |
|---------------|-----|------------|-------------|----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 70. | 0. | 78. | O. | 0. |
| 63 | 79. | 0. | €5. | 0. | 0. |
| 80 | 65. | 0. | 77. | 0. | Ű. |
| 100 | 69. | 0. | 78. | 0. | 0. |
| 125 | 72. | 0. | 81. | 0. | 0. |
| 160 | 73. | n. | 82. | 0. | 0. |
| 200 | 73. | 0. | E2. | 0. | 0. |
| 250 | 76. | 0. | 86. | 0. | v. |
| 315 | 79. | 0. | 89. | 0. | 0. |
| 400 | 78. | 0. | e7. | 0. | 0. |
| 500 | 79. | 0. | 88. | 0. | 0. |
| 630 | 80. | 0. | 90. | 0. | 0. |
| 800 | 80. | o. | 89. | 0. | 0. |
| 1000 | 80. | 0. | 88. | 0. | 0. |
| 1250 | 79. | C • | 87. | 0. | 0. |
| 1600 | 82. | 0. | 89. | 0. | 0. |
| 2000 | 81. | 0. | 90. | 0. | 0. |
| 2500 | 81. | 0. | 50. | 0. | 0. |
| 3150 | 83. | 0. | 90. | 0. | 0. |
| 4000 | 81. | 0. | 88. | 0. | 0. |
| 5000 | 80. | 0. | 86. | 0. | 0. |
| 6300 | 77. | v. | 83. | 0. | 0. |
| 8 0 00 | 76. | a. | 82. | 0. | 0. |
| 10000 | 74. | 0. | 79. | 0. | 0. |
| 12500 | 68. | 0. | 76. | 0. | 0. |
| 16000 | 64. | 0. | 72. | 0. | 0. |
| 20000 | 59. | 0. | 67. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 80. | 0. | £6. | U. | 0. |
| 125 | 76. | 0. | £5. | 0. | Ö. |
| 250 | 81. | o. | 91. | 0. | 0. |
| 500 | 84. | 0. | 93. | 0. | 0. |
| 1000 | 84. | 0. | 93. | 0. | 0. |
| 2000 | 86. | 0. | 94. | 0. | 0. |
| 4000 | 86. | 0. | 93. | 0. | Ű. |
| 8000 | 81. | o. | £6. | 0. | 0. |
| 16000 | 70. | o. | 78. | O. | 0. |

CONFIGURATION 43
FINAL PRECHAMBER WALL FUEL FILM INITIAL DESIGN
POWER SETTING 75
READING NO. 666

| | | MICROPHO | NE POSITION | | |
|-------------|-----|----------|--------------|----|----|
| 1/3 OCT FRE | Q 1 | 2 | 3 | 4 | 5 |
| 50 | 70. | 0. | 68. | U. | 0. |
| 63 | 78. | 0. | 15. | 0. | 0. |
| 80 | 68. | 0. | 67. | 0. | 0. |
| 100 | 70. | u. | 70. | 0. | 0. |
| 125 | 72. | 0. | 71. | 0. | 0. |
| 160 | 74. | 0. | 74. | 0. | 0. |
| 200 | 75. | 0. | 74. | 0. | 0. |
| 250 | 78. | 0. | 76. | 0. | 0. |
| 315 | 79. | 0. | 80. | 0. | 0. |
| 400 | 77. | 0. | 77. | U. | 0. |
| 500 | 78. | 0. | 78. | 0. | 9. |
| 630 | 80. | 0. | 79. | 0. | 0. |
| 800 | 79, | 0. | 80. | 0. | 0. |
| 1000 | 80. | 0. | 79. | 0. | 0. |
| 1250 | 80. | 0. | 78. | 0. | 0. |
| 1600 | 82. | 0. | 80. | 0. | 0. |
| 2000 | 82. | 0. | 80. | 0. | 0. |
| 2500 ` | 82. | o. | e O • | 0. | 0. |
| 3150 | 83. | 0. | 81. | 0. | 0. |
| 4000 | .03 | C. | 78. | 0. | 0. |
| 5000 | 81. | 0. | 78. | 0. | 0. |
| 6300 | 78. | 0. | 75. | 0. | 0. |
| 8000 | 77. | 0. | 72. | 0. | 9. |
| 10000 | 75. | 0. | 70. | 0. | 0. |
| 12500 | 71. | 0. | 67. | 0. | 0. |
| 16000 | 67. | 0. | 64. | 0. | 0. |
| 20000 | 63. | 0. | 59. | 0. | 0. |
| CCTAVE FRE | ۵ | | | | |
| 63 | 79. | 0. | 76. | 0. | 0. |
| 125 | 77. | 0. | 77. | 0. | v. |
| 250 | 82. | o. | 82. | 0. | 0. |
| 500 | 83. | 0. | 83. | 0. | 0. |
| 1000 | 84. | 0. | 84. | 0. | 0. |
| 2000 | 87. | 0. | 85. | 0. | 0. |
| 4000 | 86. | 0. | 84. | 0. | 0. |
| 8000 | 82. | 9. | 78. | 0. | 0. |
| 16000 | 73. | 0. | 69. | 0. | 0. |

CONFIGURATION 43
FINAL PRECHAMBER HALL FUEL FILM INITIAL DESIGN
POWER SETTING 100
READING NO. 6ES

| | | MICROPHO | NE POSITION | | |
|--------------|-----|----------|-------------|----|-----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 71. | 0. | 69. | 0. | o. |
| 63 | 79. | 0. | 76. | 0. | v. |
| 80 | 70. | 0. | 69. | 0. | 0. |
| 100 | 70. | 0. | 70. | 0. | 0. |
| 125 | 73. | 0. | 73. | 0. | 0. |
| 160 | 74. | 0. | 75. | 0. | 0. |
| 200 | 75. | 0. | 75. | 0. | 0. |
| 250 | 77. | ٥. | 78. | 0. | 0. |
| 315 | 79. | 0. | 79. | 0. | 0. |
| 400 | 77. | 0. | 77. | 0. | 0. |
| 500 | 79. | 0. | 78. | 0. | 0. |
| 630 | 81. | 0. | 80. | 0. | 0. |
| 800 | 79. | 0. | 79. | 0. | 0. |
| 1000 | 80. | 0. | 80. | 0. | 0. |
| 1250 | 80. | 0. | 79. | 0. | 0. |
| 1600 | 82. | 0. | 80. | 0. | 0. |
| 2000 | 82. | 0. | 80. | 0. | 0. |
| 2500 | 81. | 0. | 82. | 0. | 0 - |
| 3150 | 84. | 0. | 81. | 0. | 0. |
| 4000 | 82. | 0. | 80. | 0. | 0. |
| 5000 | 81. | 0. | 78. | 0. | 0. |
| 6300 | 80. | 0. | 76. | 0. | 0. |
| 8000 | 79. | 0. | 74. | 0. | 0. |
| 10000 | 76. | 0. | 71. | 0. | 0. |
| 12500 | 72. | 0. | 68. | 0. | 0. |
| 16000 | 69. | 0. | 66. | 0. | 0. |
| 20000 | 65. | 0. | 61. | Ů. | o. |
| OCTAVE FREQ | | | | | |
| 63 | 80. | 0. | 77. | 0. | 0. |
| 125 | 77. | 0. | 78. | 0. | 0. |
| 250 | 82. | 0. | 82. | 0. | 0. |
| 500 | 84. | 0. | 83. | 0. | 0. |
| 1000 | 84. | 0. | 84. | 0. | 0. |
| 2000 | 86. | 0. | 86. | 0. | 0. |
| 4000 | 87. | 0. | 95. | 0. | 0. |
| 8000 | 83. | 0. | 79. | 0. | 0. |
| 16000 | 74. | 0. | 71. | 0. | 0. |

CONFIGURATION 44
FINAL PRECHAMBER PRESSURE ATOMIZED INITIAL DESIGN
POWER SETTING 10
READING NO. 652

| | | MICROPHO | NE POSITION | | |
|--------------|-----|-------------|-------------|----------|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 65. | 64. | 65. | o. | 0. |
| 63 | 69. | 67. | 68. | o. | o. |
| 80 | 65. | 66. | 68. | 0. | 0. |
| 100 | 67. | 65. | 66. | 0. | 0. |
| 125 | 69. | 67. | 70. | 0. | 0. |
| 160 | 72. | 71. | 78. | 0. | 0. |
| 200 | 70. | 67. | 70. | 0. | ō. |
| 250 | 72. | 65. | 70. | 0. | 0. |
| 315 | 74. | 74. | 74. | 0. | 0. |
| 400 | 74. | 72. | 73. | 0. | Õ. |
| 500 | 78. | 76. | 74. | 0. | 0. |
| 630 | 78. | 77. | 77. | O. | 0. |
| 800 | 78. | 76. | 76. | 0. | 0. |
| 1000 | 78. | 76. | 75. | 0. | 0. |
| 1250 | 76. | 74. | 74. | 0. | 0. |
| 1600 | 77. | 76. | 75. | 0. | 0. |
| 2000 | 76. | 74. | 74. | 0. | o. |
| 2500 | 76. | 75. | 75. | 0. | 0. |
| 31 50 | 79. | 77. | 75. | 0. | o. |
| 4000 | 78. | 75. | 75. | 0. | 0. |
| 5000 | 77. | 74. | 72. | 0. | 0. |
| 6300 | 73. | 72. | 69. | o. | Ö. |
| 8000 | 70. | 70. | 66. | 0. | 0. |
| 10000 | 68. | 68. | 64. | 0. | 0. |
| 12500 | 63. | 65. | 60. | 0. | 0. |
| 16000 | 58. | 62. | 57. | 0. | 0. |
| 20000 | 53. | 56. | 53. | U. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 71. | 72. | | A |
| 125 | 75. | 73. | 72. 79. | 0. 0. | 0. |
| 250 | 77. | 76. | 77. | 0. | 0. |
| 500 | 82. | £0. | 80. | | 6. |
| 1000 | 82. | £0. | 80. | 0. | 0. |
| 2000 | 81. | 80. | 79. | 0. | 6. |
| 4000 | 83. | 8 0. | 79. | 0. 0. | 0. |
| 8000 | 76. | 75. | 72. | 0. | 0. |
| 16000 | 65. | 67. | 62. | | 0. |
| 10000 | | C / • | 62. | 0. | 0. |

CONFIGURATION 44
FINAL PRECHAMBER PRESSURE ATOMIZED INITIAL DESIGN
POWER SETTING 25
READING NO. 655

THE PROPERTY OF THE PROPERTY OF STREET, WHEN THE WORLD

| MICROPHONE POSITION | | |
|---------------------|------|-----|
| 1/3 OCT FREQ 1 2 3 | 4 | 5 |
| 50 68. 65. 66. | 0. | 0. |
| 63 69. 68. 69. | 0. | 0. |
| 80 69. 67. 68. | 0. | 0. |
| 100 67. 65. 66. | 0. | 0. |
| 125 65. 68. 69. | 0. | 0. |
| 160 74. 70. 72. | 0. | 0. |
| 200 71. 65. 71. | 0. | 0. |
| 250 73. 72. 73. | () . | 0. |
| 315 74. 73. 74. | 0. | 0. |
| 400 74. 72. 75. | 0. | U. |
| 500 77. 75. 77. | 0. | 0 - |
| 630 78. 77. 78. | 0. | 0. |
| 800 78. 76. 78. | 0. | 0. |
| 1000 78. 77. | 0. | 0. |
| 1250 17. 75. 75. | 0. | 0. |
| 1600 79. 77. 76. | 0. | 0. |
| 2000 79. 78. 77. | 0. | 0. |
| 2500 78. 77. 77. | 0. | 0. |
| 3150 81. 79. 77. | 0. | 0. |
| 4000 75. 71. 76. | 0. | 0. |
| 5000 79. 76. 74. | 0. | 0. |
| 6300 74. 74. 71. | 0. | 0. |
| 8000 72. 72. 68. | 0. | 0. |
| 10000 70. 70. 66. | 0. | O. |
| 12500 65. 67. 62. | 0. | 0. |
| 16000 60. 64. 59. | 0. | 0. |
| 20000 55. 56. 54. | 0. | 0. |
| 20000 | | |
| CCTAVE FREQ | | |
| 63 73. 72. 73. | 0. | 0. |
| 125 76. 73. 74. | 0. | 0. |
| 250 78. 76. 78. | 0. | 0. |
| 500 81. 60. 82. | o. | 0. |
| 1000 82. 81. 82. | 0. | 0. |
| 2000 83. 82. 81. | 0. | 0. |
| 4000 85. 82. 81. | G. | 0. |
| 8000 77. 77. 74. | 0. | 0. |
| 16000 67. 69. 64. | 0. | 0. |

CONFIGURATION 44
FINAL PRECHAMBER PRESSURE ATCMIZED INITIAL DESIGN
POWER SETTING 40
READING NO. 656

| | | MICROPHO | NE POSITION | i | |
|--------------|-----|----------|-------------|----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 70. | 68. | 69. | 0. | 0. |
| 63 | 70. | 69. | 69. | o. | 0. |
| 80 | 67. | 66. | 67. | 0. | 0. |
| 100 | 68. | 66. | 68. | 0. | 0. |
| 125 | 70. | 68. | 69. | 0. | 0. |
| 160 | 77. | 72. | 75. | 0. | 0. |
| 200 | 71. | 70. | 71. | U. | 0. |
| 250 | 74. | 73. | 72. | 0. | 0. |
| 315 | 75. | 73. | 75. | 0. | 0. |
| 400 | 75. | 72. | 74. | 0. | 0. |
| 500 | 78. | 77. | 77. | 0. | 0. |
| 630 | 80. | 79. | 80. | 0. | 0. |
| 800 | 79. | 78. | 79. | 0. | 0. |
| 1000 | 78. | 77. | 77. | 0. | 0. |
| 1250 | 78. | 76. | 76. | 0. | U. |
| 1600 | 81. | 78. | 78. | 0. | 0. |
| 2000 | 80. | 75. | 79. | 0. | 0. |
| 2500 | 78. | 77. | 77. | 0. | 0. |
| 3150 | 81. | 79. | 78. | 0. | 0. |
| 4000 | 79. | 77. | 76. | 0. | 0. |
| 5000 | 79. | 77. | 74. | 0. | 0. |
| 6300 | 75. | 74. | 72. | 0. | 0. |
| 8000 | 72. | 72. | 68. | 0. | 0. |
| 10000 | 70. | 71. | 66. | 0. | 0. |
| 12500 | 66. | 69. | 63. | 0. | 0. |
| 16000 | 61. | 65. | 60. | 0. | 0. |
| 20000 | 55. | 59. | 55. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 74. | 73. | 73. | 0. | 0. |
| 125 | 78. | 74. | 77. | o. | 0. |
| 250 | 78. | 77. | 78. | 0. | 0. |
| 500 | 83. | 82. | 82. | 0. | 0. |
| 1000 | 83. | 82. | 82. | 0. | Ů. |
| 2000 | 85. | 83. | 83. | 0. | 0. |
| 4000 | 85. | 83. | 81. | v. | 0. |
| 8000 | 78. | 77. | 74. | 0. | 0. |
| 16000 | 67. | 71. | 65. | 0. | 0. |

CONFIGURATION 44
FINAL PRECHAMBER PRESSURE ATOMIZED INITIAL DESIGN
POWER SETTING 55
READING NO. 657

| | | MICREPHE | NE FCSITION | | |
|--------------|-----|------------|-------------|------------|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 72. | 71. | 72. | 0. | 0. |
| 63 | 77. | 77. | 78. | 0. | 0. |
| 80 | 69. | 68. | 69. | 0. | 0. |
| 100 | 69. | 70. | 70. | 0. | 0. |
| 125 | 72. | 72. | 72. | 0. | 0. |
| 160 | 83. | 80. | 78. | 0. | 0. |
| 200 | 75. | 74. | 75. | 0. | 0. |
| 250 | 76. | 76. | 76. | 0. | 0. |
| 315 | 80. | El. | 79. | 0. | 0. |
| 400 | 78. | 76. | 77. | 0. | 0. |
| 500 | 83. | 79. | 80. | 0. | 0. |
| 630 | 83. | 82. | 82. | 0. | 0. |
| 800 | 80. | .03 | 80. | 0. | 0. |
| 1000 | 81. | 81. | 80• | 0. | 0. |
| 1250 | 92. | 92. | 93. | 0. | 0. |
| 1600 | ٤7. | ٤7. | 86. | 0. | 0. |
| 2000 | 81. | 81. | 80. | 0. | 0. |
| 2500 | 84. | E5. | £5 • | 0. | 0. |
| 3150 | 83. | 82. | 81. | 0. | 0. |
| 4000 | 81. | 81. | 79. | 0. | 0. |
| 5000 | 81. | .03 | 78. | 0. | 0. |
| 6300 | 79. | 79. | 77. | C ~ | 0. |
| 8000 | 75. | 76. | 74. | : • | 0. |
| 10000 | 73. | 73. | 70. | 0. | 0. |
| 12500 | 69. | 71. | 68. | 0. | 0. |
| 16000 | 65. | 67. | 64. | 0. | 0. |
| 20000 | 61. | 62. | 61. | 0. | 0. |
| DOTAGE FREA | | | | | |
| OCTAVE FREQ | 79. | 78. | 79. | 0. | 0. |
| 63 125 | 82. | 81. | 79. | 0. | 0. |
| 250 | 82. | 83. | 82. | 0. | 0. |
| 500 | e7. | 84. | 85. | 0. | 0. |
| | 93. | 93. | 93. | 0. | 0. |
| 1000 | 89. | 90. | 89. | 0. | ŏ. |
| 2000 | 87. | £6. | 84. | 0. | 0. |
| 4000 | 81. | 81. | 79. | 0. | 0. |
| 8000 | | 73. | 70. | 0. | Ö. |
| 16000 | 71. | 13. | 100 | • | • |

CONFIGURATION 44
FINAL PRECHAMBER PRESSURE ATOMIZED INITIAL DESIGN
POWER SETTING 75
READING NO. 658

| | | MICREPHE | NE POSITION | 1 | |
|--------------|-----|-------------|-------------|----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 71. | 76. | 72. | O. | o. |
| 63 | 79. | 76. | 79. | 0. | 0. |
| 80 | 69. | 69. | 71. | U. | 0. |
| 100 | 73. | 73. | 74. | U. | 0. |
| 125 | 75. | 73. | 76. | 0. | 0. |
| 160 | 75. | 76. | 78. | 0. | 0. |
| 200 | 76. | 75. | 77. | 0. | 0. |
| 250 | 78. | 76. | 78. | 0. | 0. |
| 315 | 79. | 78. | 80. | 0. | 0. |
| 400 | 79. | 77. | 78. | 0. | 0. |
| 500 | 81. | 79. | 81. | 0. | 0. |
| 630 | 82. | 75. | 81. | 0. | 0. |
| 800 | 81. | 75. | 82. | 0. | 0. |
| 1000 | 82. | €0. | 81. | 0. | 0. |
| 1250 | 90. | 90. | 84. | 0. | 0. |
| 1600 | 94. | 93. | 95. | 0. | 0. |
| 2000 | 83. | 80. | 83. | o. | 0. |
| 2500 | 84. | 82. | 83. | 0. | 0. |
| 3150 | 88. | £5. | 88. | 0. | 0. |
| 4000 | 83. | 82. | 83. | 0. | 0. |
| 5000 | 82. | 81. | 80. | 0. | 0. |
| 6300 | 82. | 81. | 83. | 0. | 0. |
| 8000 | 79. | 75. | 82. | v. | 0. |
| 10000 | 75. | 76. | 74. | 0. | 0. |
| 12500 | 72. | 73. | 71. | 0. | 0. |
| 16000 | 68. | 70. | 67. | υ. | 0. |
| 20000 | 63. | 62. | 63. | 0. | 0. |
| | | | | | |
| OCTAVE FREQ | | | | | |
| 63 | 80. | 7e. | 80. | 0. | 0. |
| 125 | 81. | 75. | 81. | 0. | 0. |
| 250 | 83. | 81. | 83. | 0. | 0. |
| 500 | 86. | E3 . | 85. | 0. | 0. |
| 1060 | 91. | 91. | 87. | 0. | 0. |
| 2000 | 95. | 54. | 56. | 0. | 0. |
| 4000 | 90. | .83 | 90. | 0. | 0. |
| 8000 | 84. | E4. | 86. | 0. | 0. |
| 16000 | 74. | 75. | 73. | 0. | 0. |

CONFIGURATION 44
FINAL PRECHAMBER PRESSURE ATOMIZED INITIAL DESIGN
POWER SETTING 100
READING NO. 655

| | | MICROPHO | NE POSITION | | |
|--------------|-------------|-------------|-------------|----|-----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 76. | 75. | 71. | 0. | 0. |
| 63 | 79. | 78. | 78. | 0. | 0. |
| 80 | 73. | 72. | 71. | 0. | 0. |
| 100 | 76. | 75. | 74. | 0. | 0. |
| 125 | 76. | 74. | 74. | 0. | 0. |
| 160 | 79. | 76. | 77. | 0. | 0. |
| 200 | 75. | 74. | 77. | 0. | 0. |
| 250 | 78. | 76. | 78. | 0. | U. |
| 315 | 79. | 75. | 80. | 0. | 0. |
| 400 | 78. | 77. | 78. | 0. | 0. |
| 500 | 80. | 75. | 81. | 0. | 0 • |
| 630 | 82. | e0 • | 81. | 0. | 0. |
| 800 | 81. | 79. | 21. | 0. | 0. |
| 1000 | 81. | 80. | 81. | 0. | 0. |
| 1250 | .88 | E4 . | 84. | 0. | 0. |
| 1600 | 97. | 52. | 54. | 0. | 0. |
| 2000 | 85. | 84. | 87. | 0. | 0. |
| 2500 | 84. | E3 . | 85• | Ů. | 0. |
| 3150 | 88. | 88. | .88 | 0. | 0. |
| 4000 | 84. | 86. | 65 • | 0. | 0. |
| 5000 | 82. | 81. | 80. | 0. | 0. |
| 6300 | . E3 | 82. | 82. | 0. | 0. |
| 3000 | 79. | 78. | 78. | 0. | 0. |
| 10000 | 75. | 76. | 74. | 0. | 0. |
| 12500 | 72. | 73. | 70. | 0. | 0. |
| 16000 | 67. | 70. | 67. | 0. | 0. |
| 20000 | 62. | 63. | 62. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 81. | 80. | 79. | 0. | 0. |
| 125 | 82. | 60. | 80. | U. | 0. |
| 250 | 82. | 82. | 83. | 0. | 0. |
| 500 | 85. | 84. | ٤5. | 0. | 0. |
| 1000 | 89. | 86. | 87. | 0. | 0. |
| 2000 | 57. | 53. | 95. | 0. | 0. |
| 4000 | 90. | 91. | 90. | 0. | 0. |
| 8000 | 85. | 84. | 84. | 0. | 0. |
| 16000 | 74. | 75. | 72. | 0. | 0. |

CONFIGURATION 45
FINAL MODIFIED CONVENTIONAL INITIAL DESIGN 0/0 OPEN DZ = 46
POWER SETTING 10
READING NO. 723

| | | MICROPH | CNE POSITION | E | |
|--------------|-----|---------|--------------|----|-----|
| 1/3 OCT FREG | 1 | 2 | 3 | 4 | 5 |
| 50 | 66. | 66. | 64. | 0. | 0. |
| 63 | 69. | 68. | 67. | 0. | 0. |
| 80 | 65. | 65. | 64. | 0. | 0. |
| 100 | 66. | 66. | 67. | 0. | 0. |
| 125 | 69. | 67. | 68. | 0. | 0. |
| 160 | 69. | 69. | 68. | 0. | 0. |
| 200 | 69. | 68. | 69. | 0. | 0. |
| 250 | 72. | 70. | 70. | 0. | 0. |
| 315 | 73. | 72. | 74. | 0. | 0. |
| 400 | 73. | 72. | 72. | 0. | 0. |
| 500 | 76. | 75. | 75. | 0. | 0. |
| 630 | 76. | 75. | 75. | 0. | 0 • |
| 800 | 76. | 76. | 74. | 0. | 0. |
| 1000 | 75. | 73. | 74. | 0. | 0. |
| 1250 | 74. | 73. | 73. | 0. | 0. |
| 1600 | 76. | 74. | 74. | 0. | 0. |
| 2000 | 74. | 73. | 73. | 0. | 0. |
| 2500 | 75. | 74. | 73. | 0. | ο. |
| 3150 | 76. | 74. | 73. | 0. | ο. |
| 4000 | 75. | 74. | 73. | 0. | 0. |
| 5000 | 73. | 70. | 69. | 0. | 0. |
| 6300 | 70. | 68. | 65. | 0. | 0 • |
| 8000 | 68. | 67. | 64. | 0. | 0. |
| 10000 | 66. | 66. | 61. | 0. | 0. |
| 12500 | 60. | 62. | 57. | 0. | 0. |
| 16000 | 55. | 60. | 56. | 0. | 0. |
| 20000 | 51. | 52. | 52. | 0. | 0. |
| OCTAVE FREG | 3 | | | | |
| 63 | 72. | 71. | 70. | 0. | 0. |
| 125 | 73. | 72. | 72. | 0. | 0. |
| 250 | 76. | 75. | 76. | 0. | Õ. |
| 500 | 80. | 79. | 79. | 0. | Ö. |
| 1000 | 80. | 79. | 78. | 0. | o. |
| 2000 | 80. | 78. | 78. | 0. | o. |
| 4000 | 80. | 78. | 77. | 0. | ō. |
| 8000 | 73. | 72. | 68. | 0. | 0. |
| 16000 | 62. | 64. | 60. | 0. | 0. |

CONFIGURATION 45
FINAL MODIFIEC CONVENTIONAL INITIAL DESIGN 0/0 OPEN DZ = 46
POWER SETTING 25
READING NO. 724

| | MICROPHO | | | |
|----------------|----------|-----|-----|-----|
| 1/3 OCT FREQ 1 | 2 | 3 | 4 | 5 |
| 50 67. | 65. | 66. | 0. | 0. |
| 63 69. | 67. | 67. | 0. | 0. |
| 80 66. | 64. | 66. | Ů. | 0. |
| 100 67. | 66. | 67. | 0. | 0 • |
| 125 69. | 68. | 68. | 0. | 0. |
| 160 70. | 68. | 70. | 0. | 0. |
| 200 70. | 69. | 69. | 0. | 0. |
| 250 73. | 71. | 71. | 0. | 0. |
| 315 74. | 72. | 74. | 0. | 0. |
| 400 74. | 73. | 73. | 0. | 0. |
| 500 77. | 76. | 76. | 0. | 0. |
| 630 77. | 76. | 76. | 0. | 0. |
| 800 78. | 77. | 76. | 0. | 0. |
| 1000 77. | 76. | 76. | 0. | 0. |
| 1250 76. | 74. | 75. | U. | 0. |
| 1600 78. | 76. | 77. | 0 - | 0. |
| 2000 78. | 76. | 77. | 0. | 0. |
| 2500 77. | 76. | 75. | Ŭ. | Ű. |
| 3150 78. | 76. | 76. | 0. | 0. |
| 4000 17. | 76. | 75. | 0. | 0. |
| 5000 75. | 72. | 71. | O. | 0. |
| 6300 71. | 71. | 69. | 0. | 0. |
| 8000 69. | 69. | 66. | 0. | 0. |
| 10000 67. | 68. | 65. | 0. | 0. |
| 12500 62. | 64. | 62. | 0. | 0. |
| 16000 57. | 61. | 59. | 0. | 0. |
| 20000 53. | 55. | 56. | 0. | 0. |
| OCTAVE FREQ | | | | |
| 63 72. | 70. | 71. | 0. | 0. |
| 125 74. | 72. | 73. | 0. | 0. |
| 250 77. | 76. | 77. | 0. | Ů. |
| 500 81. | 80 c | 80. | 0. | 0. |
| 1000 82. | 81. | 80. | 0. | 0. |
| 2000 82. | 81. | 81. | 0. | 0. |
| 4000 82. | .09 | 79. | 0. | 0. |
| 8000 74. | 74. | 72. | 0. | 0. |
| 16000 64. | 66. | 64. | 0. | 0. |

CONFIGURATION 45
FINAL MODIFIED CONVENTIONAL INITIAL DESIGN 0/0 CPEN DZ = 46
POWER SETTING 40
READING NO. 727

| | | MICROPHO | NE POSITION | | |
|--------------|-----|----------|-------------|----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 68. | 66. | 68. | 0. | 0. |
| 63 | 71. | 68. | 69. | 0. | 0. |
| 80 | 68. | 67. | 67. | 0. | 0. |
| 100 | 69. | 69. | 69. | 0. | 0. |
| 125 | 71. | 69. | 71. | 0. | 0. |
| 160 | 72. | 71. | 73. | 0. | 0. |
| 200 | 73. | 72. | 73. | 0. | 0. |
| 250 | 74. | 72. | 73. | 0. | 0. |
| 315 | 75. | 74. | 76. | 0. | 0. |
| 400 | 76. | 73. | 75. | 0. | 0. |
| 500 | 79. | 77. | 80. | 0. | 0. |
| 630 | 78. | 77. | 77. | 0. | 0. |
| 800 | 79. | 77. | 77. | 0. | 0. |
| 1000 | 79. | 78. | 77. | 0. | 0. |
| 1250 | 76. | 75. | 75. | 0. | 0. |
| 1600 | 80. | 78. | 78. | 0. | 0. |
| 2000 | 79. | 78. | 78. | 0. | 0. |
| 2500 | 78. | 76. | 76. | 0. | 0. |
| 3150 | 80. | 78. | 77. | 0. | 0. |
| 4000 | 79. | 77. | 75. | 0. | 0. |
| 500 J | 76. | 74. | 72. | 0. | 0. |
| 6300 | 72. | 71. | 68. | 0. | 0. |
| 8000 | 72. | 71. | 67. | 0. | 0. |
| 10000 | 67. | 68. | 63. | 0. | 0. |
| 12500 | 60. | 64. | 59. | 0. | 0. |
| 16000 | 55. | 60. | 57. | 0. | 0. |
| 20000 | 51. | 53. | 53. | 0. | 0. |
| | | | | | |
| OCTAVE FREQ | 144 | | | _ | _ |
| 63 | 74. | 72. | 73. | 0. | 0. |
| 125 | 76. | 75. | 76. | 0. | 0. |
| 250 | 79. | 78. | 79. | 0. | 0. |
| 50 G | 83. | 81. | 83. | 0. | 0. |
| 1000 | 83. | 82. | 81. | 0. | 0. |
| 2000 | 84. | 82. | 82. | 0. | 0. |
| 4000 | 83. | 81. | 80. | 0. | 0. |
| 8000 | 76. | 75. | 71. | 0. | 0. |
| 16000 | 62. | 66. | £2. | 0. | 0. |

CONFIGURATION 45
FINAL MODIFIED CONVENTIONAL INITIAL DESIGN 0/0 CPEN DZ = 46
POWER SETTING 55
READING NO. 728

| | | MICROPHENE | PCSITION | | |
|--------------|-----|-------------|----------|----|-----|
| 1/3 OCT FREQ | 11 | 2 | 3 | 4 | 5 |
| 50 | 72. | es. | 70. | 0. | 0. |
| 63 | 79. | 77. | 77. | 0. | 0. |
| 80 | 68. | 66. | 67. | 0. | 0. |
| 100 | 71. | 65. | 70. | 0. | 0. |
| 125 | 76. | 72. | 72. | 0. | 0. |
| 160 | 73. | 72. | 73. | 0. | 0. |
| 200 | 75. | 73. | 74. | 0. | 0 - |
| 250 | 77. | 76. | 76. | 0. | 0. |
| 315 | 79. | 77. | 79. | 0. | 0. |
| 400 | 78. | 76. | 77. | 0. | 0. |
| 500 | 78. | 78. | 78. | 0. | 0. |
| 630 | 79. | 80. | 79. | 0. | 0. |
| 800 | 79. | 79. | 79. | 0. | 0. |
| 1000 | 80. | ٤٥. | 78. | 0. | 0. |
| 1250 | 94. | 77. | 77. | 0. | 0. |
| 1600 | 82. | 78. | 79. | 0. | 0. |
| 2000 | 80. | 79. | 79. | 0. | G. |
| 2500 | 84. | 79. | 82. | 0. | 0. |
| 3150 | 80. | 75. | 78. | 0- | 0. |
| 4000 | 80. | 75. | 77. | 0. | 0. |
| 5000 | 78. | 76. | 73. | 0. | 0. |
| 6300 | 76. | 73. | 70. | 0. | 0. |
| 3000 | 74. | 73. | 68. | 0. | 0. |
| 10000 | 69. | 70. | 64. | 0. | 0. |
| 12500 | 64. | 66. | 61. | 0. | 0. |
| 16000 | 58. | €0. | 58. | 0. | 0. |
| 20000 | 53. | 54. | 54. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 80. | 78. | 78. | 0. | 0. |
| 125 | 79. | 76. | 77. | 0. | 0. |
| 250 | 82. | .03 | 82. | 0. | 0. |
| 500 | 83. | 83 . | 83. | 0. | 0. |
| 1000 | 94. | 84. | 83. | 0. | 0. |
| 2000 | 87. | 83. | 85. | 0. | 0. |
| 4000 | 84. | 83. | 81. | 0. | 0. |
| 8000 | 79. | 77. | 73. | 0. | 0. |
| 16000 | 65. | 67. | 63. | 0. | 0. |

CONFIGURATION 45
FINAL MODIFIED CONVENTIONAL INITIAL DESIGN 0/0 CPEN DZ = 46
POWER SETTING 75
READING NJ. 732

| | | MICROPHO | NE POSITION | | |
|--------------|-----|--------------|-------------|----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 71. | 69. | 70. | 0. | 0. |
| 63 | 79. | 77. | 78. | 0. | 0. |
| 80 | 69. | 67. | 69. | 0. | 0. |
| 10-) | 73. | 71. | 72. | 0. | 0. |
| 125 | 78. | 73. | 74. | v. | 0. |
| 160 | 75. | 73. | 74. | 0. | 0. |
| 200 | 76. | 74. | 75. | 0. | 0. |
| 250 | 78. | 76. | 77. | 0. | 0. |
| 315 | 79. | 77. | 79. | 0. | 0. |
| 400 | 79. | 76. | 77. | 0. | 0. |
| 500 | 79. | 78. | 79. | 0. | 0. |
| 630 | 79. | 75. | 78. | 0. | 0. |
| 800 | 80. | 75. | 80. | 0. | 0. |
| 1000 | 81. | 75. | 79. | 0. | 0. |
| 1250 | 79. | 78. | 77. | 0. | 0. |
| 1600 | 81. | e o . | 80. | 0. | 0. |
| 2000 | 81. | 80. | 80. | 0. | 0. |
| 2500 | 81. | 80. | 78. | 0. | 0. |
| 3150 | 81. | 79. | 79. | 0. | 0. |
| 4000 | 80. | 79. | 77. | 0. | 0. |
| 5000 | 78. | 76. | 74. | 0. | 0. |
| 6300 | 75. | 75. | 72. | 0. | 0. |
| 8000 | 76. | 74. | 72. | 0. | 0. |
| 10000 | 71. | 72. | 68. | 0. | 0. |
| 12500 | 64. | 67. | 63. | 0. | 0. |
| 16000 | 60. | 63. | 59. | 0. | 0. |
| 20000 | 56. | 57. | 55. | 0. | 0. |
| | | | | | |
| OCTAVE FREQ | | | | | |
| 63 | 80. | 78. | 79. | 0. | 0. |
| 125 | 81. | 77. | 78. | 0. | 0. |
| 250 | 83. | 81. | 82. | 0. | 0. |
| 500 | 84. | 83. | 83. | 0. | 0. |
| 1000 | 85. | 83. | 84. | 0. | 0. |
| 2000 | 86. | 85. | 84. | 0. | 0. |
| 4000 | 85. | E3 . | 82. | 0. | 0. |
| 8000 | 79. | 75. | 76. | 0. | 0. |
| 16000 | 66. | 69. | 65. | 0. | 0. |

CCNFIGURATION 45
FINAL MODIFIED CONVENTIONAL INITIAL DESIGN 0/0 CPEN DZ = 46
POWER SETTING 100
READING NO. 733

| | | MICROPHE | NE POSITION | | |
|------------|------|----------|-------------|-----------|-----|
| 1/3 OCT FR | EQ 1 | 2 | 3 | 4 | 5 |
| 50 | 70. | €8. | 69. | 0. | o. |
| 63 | 79. | 77. | 78. | 0. | 0. |
| 80 | 69. | 67. | 68. | 0. | 0. |
| 100 | 72. | 70. | 71. | 0. | 0. |
| 125 | 17. | 72. | 73. | 0. | 0. |
| 160 | 74. | 72. | 74. | 0. | 0 - |
| 200 | 75. | 74. | 75. | 0. | 0. |
| 250 | 77. | 75. | 76. | 0. | 0. |
| 315 | 79. | 77. | 79. | 0. | o. |
| 400 | 79. | 76. | 77. | U. | 0. |
| 500 | 79. | 78. | 79. | U. | 0. |
| 630 | .03 | 79. | 79. | 0. | 0. |
| 800 | 81. | 79. | 79. | 0. | 0. |
| 1000 | 81. | 75. | 79. | 0. | 0. |
| 1250 | 79. | 77. | 78. | 0. | 0. |
| 1600 | €0. | 79. | 80. | 0. | 0. |
| 2000 | 81. | 75. | 80. | 0. | 0. |
| 2500 | 82. | 78. | 80. | 0. | 0. |
| 3150 | 81. | 79. | 78. | 0. | 0. |
| 4000 | 80. | 78. | 77. | 0. | 0. |
| 5000 | 78. | 76. | 75. | U. | 0. |
| 6300 | 76. | 75. | 72. | 0. | 0. |
| 8000 | 76. | 75. | 72. | 0. | 0. |
| 10000 | 72. | 73. | 70. | 0. | 0. |
| 12500 | 67. | 70. | 64. | 0. | ο. |
| 16000 | 61. | 64. | 61. | 0. | 0. |
| 20000 | 57. | 58. | 56. | 0. | U. |
| | • • | | | | |
| OCTAVE FR | | 7.0 | 3.0 | | |
| 63 | 80. | 78. | 79. | 0. | J. |
| 125 | .03 | 76. | 78. | 0. | G. |
| 250 | 82. | .03 | 82. | 0. | 0. |
| 50C | 84. | 83. | 83. | 0. | 0. |
| 1000 | 85. | 83. | 83. | 0. | 0. |
| 2000 | 86. | 83. | 85. | 0. | 0. |
| 4000 | 85. | 83. | 82. | 0. | 0. |
| 8000 | 80. | 79. | 76. | 0. | 0. |
| 16000 | 68. | 71. | 66. | 0. | 0. |

CCNFIGURATION 46
FINAL MOCIFIED CONVENTIONAL INITIAL CESIGN 0/0 OPEN DZ = 100
POWER SETTING 10
READING NO. 722

| | | MICROPHONE | PCSITICN | | |
|--------------|-----|------------|----------|----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 68. | 63. | 64. | 0. | 0. |
| 63 | 69. | 65. | 66. | 0. | 0. |
| 80 | 66. | 63. | 65. | 0. | 0. |
| 100 | 68. | 65. | 66. | 0. | 0. |
| 125 | 68. | 66. | 67. | 0. | 0. |
| 160 | 70. | 69. | 70. | 0. | 0. |
| 200 | 69. | 67. | 67. | 0. | 0. |
| 250 | 71. | 70. | 70. | 0. | 0. |
| 315 | 72. | 71. | 74. | 0. | 0. |
| 400 | 73. | 71. | 72. | 0. | 0. |
| 500 | 76. | 75. | 76. | 0. | 0. |
| 630 | 76. | 75. | 75. | 0. | 0. |
| 800 | 75. | 75. | 74. | 0. | 0. |
| 1000 | 74. | 73. | 74. | 0. | 0. |
| 1250 | 73. | 72. | 72. | 0. | 0. |
| 1600 | 75. | 73. | 74. | 0. | 0. |
| 2000 | 73. | 73. | 73. | 0. | 0. |
| 2500 | 74. | 73. | 73. | 0. | 0. |
| 3150 | 15. | 74. | 73. | 0. | 0. |
| 4000 | 75. | 75. | 73. | 0. | 0. |
| 5000 | 72. | 71. | 69. | 0. | 0. |
| 6300 | 70. | 69. | 67. | 0. | 0. |
| 9000 | 68. | €8. | 64. | 0. | 0. |
| 10000 | 67. | 67. | 63. | 0. | 0. |
| 12500 | 62. | 63. | 58. | 0. | 0. |
| 16000 | 58. | 60. | 56. | 0. | 0. |
| 20000 | 52. | 52. | 51. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 71. | 70. | 0. | 0. |
| 125 | 74. | 72. | 73. | 0. | 0. |
| 250 | 76. | 74. | 76. | v. | 0. |
| 500 | 80. | 79. | 79. | 0. | 0. |
| 1000 | 79. | 78. | 78. | o. | 0. |
| 2000 | 79. | 78. | 78. | o. | 0. |
| 4000 | 79. | 78. | 77. | 0. | 0. |
| 8000 | 73. | 73. | 70. | 0. | 0. |
| 16000 | 64. | 65. | 61. | 0. | 0. |

CONFIGURATION 46
FINAL MODIFIED CONVENTIONAL INITIAL DESIGN 0/0 CFEN DZ = 100
POWER SETTING 25
READING NJ. 725

| | | MICROPHO | NE POSITION | | |
|--------------|-----|------------|-------------|----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 66. | éé. | 69. | 0. | 0. |
| 63 | 68. | 67. | 68. | 0. | 0. |
| 80 | 64. | 63. | 66. | 0. | 0. |
| 100 | 67. | 66. | 67. | 0. | 0. |
| 125 | 70. | 67. | 65. | 0. | 0. |
| 160 | 70. | 68. | 69. | 0. | 0. |
| 200 | 70. | 68. | 69. | 0. | 0. |
| 250 | 72. | 70. | 71. | 0. | 0. |
| 315 | 74. | 72. | 74. | 0. | 0. |
| 400 | 75. | 72. | 73. | 0. | 0. |
| 500 | 77. | 75. | 77. | 0. | 0. |
| 630 | 76. | 76. | 75. | 0. | 0. |
| 800 | 77. | 75. | 75. | 0. | 0. |
| 1000 | 76. | 75. | 74. | 0. | 0. |
| 1250 | 75. | 73. | 74. | 0. | 0. |
| 1600 | 77. | 75. | 76. | 0. | 0. |
| 2000 | 77. | 75. | 75. | 0. | 0. |
| 2500 | 76. | 76. | 75. | 0. | 0. |
| 3150 | 78. | 76. | 76. | 0. | 0. |
| 4000 | 78. | 75. | 75. | 0. | 0. |
| 5000 | 76. | 73. | 71. | 0. | 0. |
| 6300 | 73. | 71. | 68. | 0. | 0. |
| 8000 | 71. | 70. | 66. | 0. | 0. |
| 10000 | 68. | 65. | 64. | 0. | 0. |
| 12500 | 63. | 66. | 60. | 0. | 0. |
| 16000 | 57. | £1. | 57. | 0. | 0. |
| 20000 | 52. | 54. | 53. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 71. | 70. | 73. | 0. | 0. |
| 125 | 74. | 72. | 73. | 0. | 0. |
| 250 | 77. | 75. | 77. | 0. | 0. |
| 500 | 81. | 75. | 80. | 0. | 0. |
| 1000 | 81. | 79. | 79. | 0. | 0. |
| 2000 | 81. | 80. | 80. | 0. | 0. |
| 4000 | 82. | 80. | 79. | 0. | 0. |
| 8000 | 76. | 75. | 71. | 0. | 0. |
| 16000 | 64. | 67. | 62. | 0. | 0. |

CONFIGURATION 46
FINAL MODIFIED CONVENTIONAL INITIAL DESIGN U/O CPEN DZ = 100
PCWER SETTING 40
READING NO. 726

| | | MICROPHEN | E FOSITION | | |
|--------------|-----|-------------|------------|----|-----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | es. | 71. | 0. | 0. |
| 63 | 59. | 67. | 69. | 0. | 0. |
| 80 | 66. | 65. | 67. | 0. | 0. |
| 100 | 65. | 67. | 69. | 0. | 0. |
| 125 | 70. | £ E. | 70. | 0. | 0. |
| 160 | 71. | 69. | 72. | 0. | 0. |
| 200 | 71. | 65. | 70. | 0. | 0. |
| 250 | 73. | 70. | 72. | 0. | 0. |
| 31.5 | 74. | 72. | 75. | 0. | 0. |
| 400 | 74. | 71. | 72. | 0. | 0. |
| 500 | 77. | 75. | 76. | 0. | 0 • |
| 630 | 76. | 76. | 75. | 0. | 0. |
| 800 | 77. | 74. | 75. | 0. | 0. |
| 1000 | 77. | 75. | 75. | 0. | 0. |
| 1250 | 76. | 74. | 74. | 0. | 0. |
| 1600 | 78. | 76. | 78. | 0. | 0. |
| 2000 | 79. | 77. | 77. | 0. | 0. |
| 2500 | 77. | 76. | 75. | 0. | 0. |
| 3150 | 78. | 77. | 76. | 0. | 0. |
| 4000 | 78. | 76. | 75. | 0. | 0. |
| 5000 | 76. | 73. | 72. | 0. | 0. |
| 6300 | 74. | 72. | 70. | 0. | 0. |
| 9000 | 72. | 72. | 69. | 0. | 0. |
| 10000 | 68. | 65. | 65. | 0. | υ. |
| 12500 | 65. | 66. | 62. | 0. | 0. |
| 16000 | 59. | 62. | 59. | 0. | 0. |
| 20000 | 55. | 56. | 56. | 0. | 0. |
| OCTAVE FREG | | | | | |
| 63 | 72. | 72. | 74. | 0. | 0. |
| 125 | 75. | 73. | 75. | 0. | 0. |
| 250 | 78. | <i>i</i> 5. | 78. | 0. | 0. |
| 500 | 81. | 79. | 79. | 0. | 0. |
| 1000 | 81. | 75 | 79. | 0. | 0. |
| 2000 | 83. | 81. | 82. | 0. | 0. |
| 4000 | 82. | EQ. | 79. | 0. | 0. |
| 8000 | 77. | 76. | 73. | υ. | 0. |
| 16000 | 66. | €8. | 64. | 0. | 0. |

CONFIGURATION 46
FINAL MODIFIEC CONVENTIONAL INITIAL DESIGN 0/0 CPEN DZ = 100
POWER SETTING 55
READING NO. 721

| | | MICROPHO | NE POSITION | | |
|---------------|-------------|----------|-------------|----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 54 | 71. | 75. | 69. | 0. | 0. |
| 63 | 79. | 77. | 77. | 0. | 0. |
| 80 | 68. | 69. | 68. | 0. | 0. |
| 100 | 71. | 70. | 70. | 0. | 0. |
| 125 | 76. | 73. | 73. | 0. | 0. |
| 160 | 74. | 71. | 74. | 0. | 0. |
| 200 | 74. | 72. | 74. | 0. | 0. |
| 250 | 76. | 76. | 76. | 0. | 0. |
| 315 | 75. | 76. | 80. | 0. | 0. |
| 400 | 79. | 74. | 76. | 0. | 0. |
| 50 0 | 79. | 77. | 79. | 0. | 0. |
| 630 | 79. | 78. | 78. | 0. | 0. |
| 800 | 79. | 11. | 77. | 0. | 0. |
| 1000 | 80. | 78. | 79. | 0. | 0. |
| 1250 | 89. | 51. | 96. | V. | 0. |
| 1600 | 82. | 82. | 86. | 0. | 0. |
| 2000 | 80. | 78. | 79. | 0. | 0. |
| 2500 | 83. | £1. | 84. | 0. | 0. |
| 3150 | 80. | 78. | 78. | 0. | 0. |
| 4000 | 82. | 82. | 82. | 0. | 0. |
| 500 0 | 80. | 77. | 76. | 0. | 0. |
| 6300 | 77. | 76. | 75. | 0. | 0. |
| 9000 | 76. | 75. | 75. | 0. | 0. |
| 10000 | 71. | 72. | 70. | 0. | 0. |
| 12500 | 66. | 69. | 65. | 0. | 0. |
| 16000 | 6U. | £4. | 60. | 0. | 0. |
| 20000 | 55. | 56. | 54. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 80. | 80. | 78. | 0. | 0. |
| 125 | 79. | 76. | 77. | 0. | 0. |
| 250 | 82. | £0. | 82. | 0. | 0. |
| 500 | 84. | 61. | 83. | 0. | 0. |
| 1000 | 90. | 91. | 96 . | 0. | 0. |
| 2000 | 87 . | £5. | 89. | 0. | 0. |
| 4000 | 86. | 64. | 84. | 0. | 0. |
| | 80. | 79. | 79. | 0. | 0. |
| 8000 16000 | | | | | 0. |
| 19000 | 67. | 70. | 66. | 0. | 0. |

CCNFIGURATION 47
FINAL PRECHAMBER WALL FUEL FILM MCD A
POWER SETTING 10
READING NO. 754

| | | MICROPHO | NE POSITIO | N | |
|--------------|-----|------------|------------|------|------|
| 1/3 UCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 66. | 63. | 65. | 131. | 140. |
| 63 | 70. | 70. | 70. | 130. | 136. |
| 80 | 66. | 63. | 65. | 129. | 136. |
| 100 | 67. | 64. | 65. | 131. | 141. |
| 125 | 70. | 65. | 71. | 133. | 142. |
| 160 | 71. | 65. | 71. | 138. | 148. |
| 200 | 71. | 70. | 71. | 128. | 140. |
| 250 | 74. | 72. | 73. | 125. | 137. |
| 315 | 74. | 73. | 76. | 128. | 135. |
| 400 | 74. | 72. | 74. | 132. | 136. |
| 500 | 76. | 75. | 78. | 125. | 137. |
| 630 | 76. | 76. | 76. | 124. | 136. |
| 800 | 78. | 76. | 77. | 125. | 135. |
| 1000 | 77. | 77. | 76. | 121. | 137. |
| 1250 | 76. | 75. | 74. | 121. | 136. |
| 1600 | 78. | 76. | 75. | 124. | 136. |
| 2000 | 76. | 74. | 74. | 121. | 135. |
| 2500 | 76. | 75. | 74. | 119. | 132. |
| 3150 | 77. | 75. | 74. | 125. | 130. |
| 4000 | 76. | 74. | 73. | 117. | 134. |
| 5000 | 78. | 75. | 73. | 122. | 131. |
| 6300 | 72. | 70. | 68. | 120. | 133. |
| 3000 | 71. | 7C. | 68. | 124. | 127. |
| 10000 | 67. | 67. | 65. | 106. | 123. |
| 12500 | 62. | 65. | 61. | 100. | 117. |
| 16000 | 57. | 61. | 59. | 99. | 112. |
| 20000 | 53. | 55. | 54. | 98. | 110. |
| | | | | | |
| OCTAVE FREQ | | == | | | |
| 63 | 73. | 71. | 72. | 135. | 143. |
| 125 | 74. | 73. | 75. | 140. | 150. |
| 250 | 76. | 77. | 79. | 132. | 143. |
| 500 | 80. | 75. | 81. | 133. | 141. |
| 1000 | 82. | 81. | 81. | 128. | 141. |
| 2000 | 82. | 80. | 79. | 127. | 139. |
| 4000 | 82. | 75. | 78. | 127. | 137. |
| 8000 | 75. | 74. | 72. | 126. | 134. |
| 16000 | 64. | 67. | 64. | 104. | 119. |

CONFIGURATION 47
FINAL PRECHAMBER WALL FUEL FILM MCD A
POWER SETTING 25
READING NO. 755

| | | MICROPHO | NE POSITIO | N | |
|--------------|-----|----------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 70. | 66. | 68. | 131. | 145. |
| 63 | 72. | 70. | 71. | 131. | 139. |
| 80 | 65. | £3. | 65. | 132. | 138. |
| 100 | 68. | 65. | 66. | 132. | 144. |
| 125 | 70. | .33 | 71. | 135. | 141. |
| 160 | 72. | 68. | 70. | 138. | 147. |
| 200 | 72. | 65. | 71. | 131. | 142. |
| 250 | 75. | 73. | 75. | 126. | 140. |
| 315 | 75. | 74. | <i>i.</i> . | 129. | 137. |
| 400 | 74. | 73. | 74. | 135. | 138. |
| 500 | 76. | 76. | 78. | 128. | 139. |
| 630 | 77. | 76. | 77. | 125. | 138. |
| 800 | 78. | 76. | 77. | 126. | 137. |
| 1000 | 79. | 77. | 77. | 123. | 137. |
| 1250 | 78. | 76. | 75. | 123. | 137. |
| 1600 | 80. | 77. | 77. | 125. | 137. |
| 2000 | 78. | 77. | 77. | 123. | 136. |
| 2500 | 77. | 75. | 76. | 120. | 134. |
| 3150 | 79. | 77. | 77. | 126. | 133. |
| 4000 | 77. | 75. | 75. | 119. | 136. |
| 5000 | 78. | 73. | 73. | 121. | 132. |
| 6300 | 73. | 71. | 69. | 122. | 136. |
| 8000 | 70. | és. | 67. | 116. | 130. |
| 10000 | 69. | 65. | 66. | 107. | 127. |
| 12500 | 64. | 67. | 63. | 100. | 121. |
| 16000 | 60. | 64. | 61. | 99. | 114. |
| 20000 | 54. | 57. | 56. | 98. | 111. |
| CCTAVE FREQ | | | | | |
| 63 | 75. | 72. | 73. | 136. | 147. |
| 125 | 75. | 72. | 74. | 140. | 149. |
| 250 | 79. | 17. | 79. | 134. | 145. |
| 500 | 81. | 60. | 81. | 136. | 143. |
| 1000 | 83. | 81. | 81. | 129. | 142. |
| 2000 | 83. | 81. | 81. | 128. | 141. |
| 4000 | 83. | 80. | 80. | 128. | 139. |
| 8000 | 76. | 75. | 72. | 123. | 137. |
| 16000 | 66. | 65. | 66. | 104. | 122. |

CONFIGURATION 47
FINAL PRECHAMBER WALL FUEL FILM MCC A
POWER SETTING 40
READING NO. 756

| | | MICROPHC | E PCSITION | | |
|--------------|-----|-------------|------------|-------|------|
| 1/3 JCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 74. | 73. | 71. | 133. | 146. |
| 63 | 72. | 71. | 70. | 134. | 142. |
| 80 | 66. | 67. | 66. | 135. | 141. |
| 100 | 68. | 68. | 66. | 133. | 144. |
| 125 | 70. | 65. | 69. | 136. | 142. |
| 160 | 72. | 71. | 71. | 141. | 148. |
| 200 | 73. | 72. | 72. | 135. | 144. |
| 250 | 75. | 75. | 75. | 128. | 141. |
| 315 | 75. | 76. | 75. | 129. | 139. |
| 400 | 75. | 74. | 74. | 136. | 138. |
| 500 | 77. | 78. | 79. | 132. | 140. |
| 630 | 78. | 78. | 77. | 127. | 140. |
| 800 | 79. | 78. | 78. | 128. | 139. |
| 1000 | 79. | 80. | 78. | 125. | 139. |
| 1250 | 79. | 75. | 77. | 124. | 140. |
| 1600 | 82. | el. | 79. | 127. | 140. |
| 2000 | 80. | 8 C. | 79. | 125. | 138. |
| 2500 | 79. | 75. | 77. | 123. | 137. |
| 3150 | 80. | 80. | 78. | 127. | 134. |
| 4000 | 79. | 75. | 76. | 121. | 137. |
| 5000 | 75. | 77. | 74. | 1.22. | 136. |
| 6300 | 74. | 74. | 71. | 124. | 141. |
| 8000 | 71. | 72. | 68. | 119. | 133. |
| 10000 | 69. | 69. | 66. | 110. | 130. |
| 12500 | 64. | 65. | 62. | 109. | 124. |
| 16000 | 59. | 61. | 60. | 108. | 115. |
| 20000 | 54. | 55. | 56. | 108. | 111. |
| CCTAVE FREQ | | | | | |
| 63 | 77. | 76. | 74. | 139. | 148. |
| 125 | 75. | 74. | 74. | 143. | 150. |
| 250 | 79. | 79. | 79. | 137. | 147. |
| 500 | 82. | 82. | 82. | 138. | 144. |
| 1000 | 84. | 84. | 82. | 131. | 144. |
| 2000 | 85. | 85. | 83. | 130. | 143. |
| 4000 | 84. | 84. | 81. | 129. | 141. |
| 8000 | 77. | 77. | 74. | 125. | 142. |
| 15000 | 66. | 67. | 65. | 113. | 125. |
| | | | | | |

CONFIGURATION 47
FINAL PRECHAMBER WALL FUEL FILM MCD A
POWER SETTING 55
READING NO. 757

| | | MICROPH | CNE PCSITI | 6.4 | |
|--------------|-----|-------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | CHE SEZELI | | |
| 50 | 74. | 73. | 3 | 4 | 5 |
| 63 | 81. | 82. | 76. | 137. | 146. |
| 80 | 69. | 68. | 84. | 135. | 144. |
| 100 | 72. | 65. | 69. | 137. | 143. |
| 125 | 77. | 74. | 70. | 134. | 145. |
| 160 | 74. | 72. | 73. | 136. | 144. |
| 200 | 75. | 73. | 75. | 140. | 148. |
| 250 | 77. | 77 . | 78. | 137. | 145. |
| 315 | 79. | 78. | 78. | 129. | 142. |
| 400 | 78. | 76. | 80. | 130. | 141. |
| 500 | 79. | | 78. | 138. | 140. |
| 630 | 80. | 79. | 82. | 135. | 142. |
| 800 | 80. | 79. | 82. | 127. | 141. |
| 1000 | 81. | 79. | 81. | 128. | 140. |
| 1250 | 99. | 81. | 82. | 125. | 139. |
| 1600 | 91. | 52. | 95. | 125. | 140. |
| 2000 | 82. | 66. | 91. | 128. | 140. |
| 2500 | 86. | 81. | 81. | 126. | 138. |
| 3150 | 82. | .89 | 89. | 122. | 138. |
| 4000 | 80. | 83. | 85. | 127. | 134. |
| 5000 | 80. | 60. | 81. | 122. | 136. |
| 6300 | 77. | 78. | 81. | 122. | 135. |
| 8000 | | 78. | 8 0. | 124. | 138. |
| 10000 | 75. | 76. | 77. | 118. | 133. |
| 12500 | 72. | 72. | 73. | 111. | 129. |
| 16000 | 68. | 70. | 70. | 109. | 123. |
| 20000 | 65. | 67. | 69. | 107. | 114. |
| 20000 | 61. | 61. | 63. | 107. | 111. |
| OCTAVE FREQ | | | | | •••• |
| 63 | 82. | 83. | £5 . | 141 | |
| 125 | 80. | 77. | 78. | 141. | 149. |
| 250 | 82. | 81. | 84. | 142. | 151. |
| 500 | 84. | e3 . | £6. | 138. | 148. |
| 1000 | 99. | 93. | 55. | 140. | 146. |
| 2000 | 93. | 51. | 93. | 131. | 144. |
| 4000 | 86. | 86. | 88. | 131. | 144. |
| 8000 | 80. | 81. | 82. | 129. | 140. |
| 16000 | 70. | 72. | 73. | 125. | 140. |
| | | *** | 13. | 113. | 124. |
| | | | | | |

CONFIGURATION 47
FINAL PRECHAMBER WALL FUEL FILM MCD A
POWER SETTING 75
READING NO. 758

| | | MICROPHO | NE POSITIO | N | |
|--------------|-----|-------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 73. | 74. | 72. | 138. | 147. |
| 63 | 81. | 81. | 81. | 136. | 144. |
| 80 | 68. | 69. | 68. | 137. | 143. |
| 100 | 72. | 71. | 71. | 136. | 147. |
| 125 | 76. | 72. | 73. | 137. | 145. |
| 160 | 74. | 73. | 74. | 141. | 148. |
| 200 | 75. | 73. | 74. | 140. | 145. |
| 250 | 78. | 76. | 77. | 131. | 144. |
| 315 | 79. | 78. | 79. | 131. | 142. |
| 400 | 78. | 7ć. | 76. | 141. | 144. |
| 500 | 79. | 77. | 79. | 140. | 143. |
| 630 | 80. | 78. | 79. | 128. | 143. |
| 800 | 81. | 78. | 80. | 129. | 141. |
| 1000 | 81. | 81. | 80. | 126. | 140. |
| 1250 | 93. | 84. | 91. | 125. | 142. |
| 1600 | 92. | 86. | 93. | 128. | 140. |
| 2000 | 82. | ٤1. | 81. | 127. | 139. |
| 2500 | E4. | 82. | 83. | 124. | 139. |
| 3150 | 83. | 82. | 82. | 126. | 135. |
| 4000 | 82. | 75. | 80. | 122. | 136. |
| 5000 | 81. | 79. | 78. | 123. | 136. |
| 6300 | 80. | 80. | 78. | 125. | 139. |
| 8000 | 77. | 77. | 76. | 117. | 134. |
| 10000 | 73. | 74. | 72. | 113. | 129. |
| 12500 | 65. | 71. | 66. | 108. | 124. |
| 16000 | 65. | 67. | 64. | 108. | 116. |
| 20000 | 62. | 61. | 5 7. | 107. | 111. |
| | | | | | |
| CCTAVE FREQ | | | | | |
| 63 | 82. | 82. | 82. | 142. | 150. |
| 125 | 79. | 77. | 78. | 143. | 152. |
| 250 | 82. | 81. | 82. | 141. | 149. |
| 500 | 84. | 82. | 83. | 144. | 148. |
| 1000 | 94. | 86. | 92. | 132. | 146. |
| 2000 | 93. | .39 | 94. | 131. | 144. |
| 4000 | 87. | E5 . | 85. | 129. | 140. |
| 8000 | 82. | 82. | 81. | 126. | 141. |
| 16000 | 71. | 73. | 68. | 112. | 125. |

CONFIGURATION 48
FINAL PRECHAMBER PRESSURE ATOMIZER MCC A
POWER SETTING 10
READING NO. 755

| | | MICROPHONE | POSITION | | |
|--------------|-------------|------------|----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 64. | 63. | 66. | 130. | 140. |
| 53 | 70. | 69. | 71. | 129. | 136. |
| 80 | 66. | 66. | 69. | 129. | 136. |
| 100 | 67. | 67. | 71. | 128. | 139. |
| 125 | 68. | 68. | 70. | 131. | 136. |
| 160 | 72. | 68. | 71. | 136. | 143. |
| 200 | 71. | 69. | 72. | 132. | 143. |
| 250 | 74. | 72. | 75. | 125. | 139. |
| 315 | 74. | 73. | 75. | 126. | 136. |
| 4(1) | 74. | 73. | 74. | 135. | 136. |
| 500 | 76. | 75. | 77. | 126. | 138. |
| 630 | 76. | 75. | 75. | 124. | 136. |
| 800 | 77. | 75. | 78. | 124. | 135. |
| 1000 | 77. | 76. | 76. | 121. | 136. |
| 1250 | 76. | 74. | 73. | 122. | 135. |
| 1600 | 78. | 76. | 75. | 123. | 135. |
| 2000 | 77. | 74. | 74. | 121. | 134. |
| 2500 | 76. | 74. | 74. | 119. | 132. |
| 3150 | 78. | 75. | 74. | 126. | 130. |
| 4000 | 76. | 74. | 74. | 117. | 133. |
| 5000 | eo. | 75. | 73. | 121. | 131. |
| 6300 | 71. | 70. | 67. | 120. | 131. |
| 3000 | 70. | 70. | 66. | 121. | 128. |
| 10000 | 66. | 66. | 62. | 105. | 123. |
| 12500 | 61. | €2. | 58. | 99. | 116. |
| 16000 | 56. | 59. | 56. | 98. | 112. |
| 20000 | 52. | 53. | 52. | 57. | 110. |
| | | | | | |
| OCTAVE FREQ | | | | | |
| 63 | 72. | 71. | 74. | 134. | 143. |
| 125 | 74. | 72. | 75. | 138. | 145. |
| 250 | 78. | 76. | 79. | 134. | 145. |
| 500 | .0 8 | 79. | 80. | 136. | 142. |
| 1000 | 81. | .08 | 81. | 127. | 140. |
| 2000 | 82. | 80. | 79. | 126. | 139. |
| 4000 | 82. | 75. | 78. | 128. | 136. |
| 3000 | 74. | 74. | 70. | 124. | 133. |
| 16000 | 63. | 64. | 61. | 103. | 118. |

CONFIGURATION 48
FINAL PRECHAMBER PRESSURE ATOMIZER MCD A
POWER SETTING 25
READING NO. 800

| | | MICROPHEN | E PCSITION | | |
|--------------|-----|-----------|------------|------|-------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 72. | 69. | 71. | 134. | 144. |
| 63 | 71. | 65. | 70. | 131. | 139. |
| 80 | 68. | 66. | 67. | 131. | 138. |
| 100 | 69. | 66. | 69. | 130. | 140. |
| 125 | 69. | 68. | 69. | 132. | 137. |
| 160 | 71. | 69. | 70. | 138. | 144. |
| 200 | 71. | 69. | 70. | 136. | 146. |
| 250 | 73. | 73. | 73. | 127. | 141. |
| 315 | 74. | 73. | 74. | 128. | 139. |
| 400 | 73. | 72. | 74. | 135. | 138. |
| 500 | 77. | 76. | 77. | 132. | 143. |
| 630 | 77. | 76. | 77. | 126. | 138. |
| 800 | 77. | 76. | 78. | 126. | 137. |
| 1000 | 77. | 76. | 77. | 123. | 138. |
| 1250 | 77. | 75. | 74. | 123. | 138. |
| 1600 | 75. | 77. | ?7. | 125. | 138. |
| 2000 | 78. | 76. | 77. | 123. | 136. |
| 2500 | 77. | 76. | 76. | 120. | 135. |
| 3150 | 79. | 78. | 76. | 126. | 131. |
| 4000 | 77. | 76. | 76. | 120. | 136. |
| 5000 | 78. | 74. | 73. | 121. | 134. |
| 6300 | 72. | 71. | 69. | 121. | 134. |
| 8000 | 69. | 70. | 67. | 117. | 130 - |
| 10000 | 67. | 68. | 65. | 107. | 126. |
| 12500 | 63. | 66. | 62. | 101. | 121 - |
| 16000 | 59. | 64. | 60. | 100. | 114. |
| 20000 | 54. | 57. | 56. | 98. | 111. |
| | | | | | |
| OCTAVE FREQ | | | | | |
| 63 | 75. | 73. | 74. | 137. | 146. |
| 125 | 75. | 73. | 74. | 139. | 146. |
| 250 | 78. | 77. | 77. | 137. | 148. |
| 500 | 81. | .08 | 81. | 137. | 145. |
| 1000 | 82. | 80. | 81. | 129. | 142. |
| 2000 | 63. | 81. | 81. | 128. | 141. |
| 4000 | 83. | 81. | 80. | 128. | 139. |
| 8000 | 75. | 75. | 72. | 123. | 136. |
| 16000 | 65. | 68. | 65. | 105. | 122. |

CONFIGURATION 48
FINAL PRECHAMBER PRESSURE ATOMIZER MCC A
POWER SETTING 40
READING NO. EC1

| | | MICROPHONE | PCSITICN | | |
|--------------|------|------------|----------|------|------|
| 1/3 GCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 70. | 70. | 71. | 142. | 155. |
| 63 | 71. | es. | 71. | 141. | 153. |
| 80 | 67. | 65. | 67. | 142. | 152. |
| 100 | 69. | 67. | 69. | 141. | 154. |
| 125 | 70• | 68. | 69. | 141. | 150. |
| 169 | 70. | 7C. | 70. | 145. | 155. |
| 200 | 73. | 71. | 73. | 149. | 162. |
| 25 u | 74. | 72. | 74. | 138. | 154. |
| 31.5 | 75. | 73. | 75. | 136. | 150. |
| 400 | 74. | 73. | 75. | 140. | 147. |
| 500 | 78. | 77. | 80. | 142. | 154. |
| 630 | 78. | 77. | 78. | 133. | 149. |
| 800 | 79. | 77. | 78. | 135. | 149. |
| 1000 | 79. | 78. | 77. | 131. | 149. |
| 1250 | 78. | 76. | 75. | 130. | 149. |
| 1600 | 81. | 75. | 78. | 133. | 149. |
| 2000 | 80. | 78. | 79. | 131. | 148. |
| 2500 | 78. | 77. | 76. | 128. | 146. |
| 3150 | 8Ö • | 75. | 78. | 133. | 143. |
| 4000 | 79. | 78. | 76. | 127. | 146. |
| 5000 | 77. | 75. | 74. | 128. | 145. |
| 6300 | 74. | 73. | 71. | 129. | 145. |
| 8000 | 71. | 71. | 68. | 124. | 140. |
| 10000 | 69. | 69. | 66. | 115. | 136. |
| 12500 | 64. | 66. | 63. | 110. | 132. |
| 16000 | 61. | 63. | 61. | 109. | 124. |
| 20000 | 55. | 57. | 56. | 108. | 121. |
| OCTAVE FREQ | | | | | |
| 63 | 74. | 73. | 75. | 146. | 158. |
| 125 | 74. | 73. | 74. | 148. | 158. |
| 250 | 75. | 17. | 79. | 150. | 163. |
| 500 | 82. | 81. | 83. | 144. | 156. |
| 1000 | 83. | 82. | 82. | 137. | 154. |
| 2000 | 85. | 83. | 83. | 136. | 153. |
| 4000 | 84. | 82. | 81. | 135. | 150. |
| 8000 | 17. | 76. | 74. | 130. | 147. |
| 16000 | 66. | 68. | 66. | 114. | 133. |

CONFIGURATION 48
FINAL PRECHAMBER PRESSURE ATOMIZER MCD A
POWER SETTING 55
READING NU. EG2

| | | MICROPHO | E POSITION | | |
|--------------|-----|-------------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 71. | 71. | 137. | 153. |
| 63 | 15. | .08 | 81. | 137. | 150. |
| 80 | 62. | 66. | 67. | 139. | 153. |
| 100 | 67. | 68. | 70. | 136. | 153. |
| 125 | 72. | 69. | 72. | 136. | 150. |
| 160 | 69. | 71. | 13. | 142. | 157. |
| 200 | 72. | 73. | 76. | 144. | 162. |
| 250 | 72. | 76. | 76. | 134. | 152. |
| 315 | 74. | 77. | 77. | 131. | 148. |
| 400 | 74. | 76. | 77. | 134. | 148. |
| 500 | 76. | 70. | 79. | 137. | 156. |
| 630 | 76. | 75. | 79. | 127. | 149. |
| 800 | 77. | 78. | 80. | 129. | 146. |
| 1000 | 77. | eO. | 90. | 125. | 146. |
| 1250 | 76. | 85. | 78. | 125. | 146. |
| 1600 | 77. | el. | 80. | 128. | 145. |
| 2000 | 77. | 75. | 80. | 126. | 144. |
| 2500 | 78. | 83. | 82. | 123. | 144. |
| 3150 | 78. | 80. | 79. | 127. | 140. |
| 4000 | 76. | .0 9 | 78. | 122. | 141. |
| 5000 | 15. | 77. | 75. | 122. | 141. |
| 6300 | 72. | 76. | 73. | 125. | 143. |
| 8000 | 69. | 72. | 69. | 119. | 139. |
| 10000 | 66. | 71. | 67. | 111. | 134. |
| 12500 | 63. | 68. | 66. | 108. | 131. |
| 16000 | 59. | 66. | 64. | 107. | 123. |
| 20000 | 54. | 59. | 59. | 107. | 121. |
| | | | | | |
| OCTAVE FREQ | =1. | | 5.5 | 7.11 | |
| 63 | 76. | 81. | 82. | 143. | 157. |
| 125 | 75. | 74. | 77. | 144. | 159. |
| 250 | 78. | 80. | 81. | 145. | 163. |
| 500 | 80. | 83. | 83. | 139. | 154. |
| 1000 | 81. | 90. | 84. | 132. | 151. |
| 2000 | 82. | 86. | 86. | 131. | 149. |
| 4000 | 81. | 84. | 82. | 129. | 145. |
| 8000 | 74. | 78. | 75. | 126. | 145. |
| 16000 | 65. | 70. | 69. | 112. | 132. |

CONFIGURATION 48
FINAL PRECHAMBER PRESSURE ATOMIZER MCD A
POWER SETTING 75
READING NO. EC3

| | | MICROPHENE | PCSITICN | | |
|----------------|------------|------------|------------|--------------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 72. | 69. | 70. | 138. | 149. |
| 63 | 80. | 75. | 19. | 139. | 147. |
| 80 | 67. | 66. | 67. | 141. | 149. |
| 100 | 70. | 70. | 71. | 139. | 150. |
| 125 | 75. | 71. | 73. | 138. | 147. |
| 160 | 74. | 72. | 74. | 147. | 156. |
| 200 | 5. | 75. | 77. | 148. | 155. |
| 250 | 78. | 77. | 76. | 137. | 148. |
| 315 | 79. | 78. | 79. | 133. | 146. |
| 400 | 78. | 76. | 78. | 138. | 143. |
| 500 | 80. | 77. | 81. | 141. | 146. |
| 630 | 80. | 75. | 79. | 128. | 144. |
| 800 | 82. | 80. | 80. | 130. | 141. |
| 1000 | 31. | 80. | 80. | 126. | 140. |
| 1250 | 80. | 78. | 78. | 125. | 142. |
| 1600 | 82. | 80. | 80. | 128. | 140. |
| 2000 | 82. | .03 | e1. | 128. | 139. |
| 2500 | 82. | 79. | 83. | 123. | 139. |
| 3150 | 82. | ٤1. | 80. | 126. | 136. |
| 4000 | 81. | 79. | 78. | 122. | 137. |
| 500 0 | 80. | 77. | 76. | 123. | 136. |
| 6300 | 77. | 76. | 74. | 126. | 137. |
| 8000 | 74. | 73. | 70. | 117. | 135. |
| 10000 | 70• | 71. | 68. | 112. | 131. |
| 12500 | 67. | 69. | 65. | 109. | 129. |
| 16000 | 63. | 66. | 63. | 108. | 122. |
| 20000 | 57. | 59. | 59. | 107. | 120. |
| OCTAVE EDEO | | | | | |
| OCTAVE FREQ 63 | 81. | 60. | 80. | 144. | 153. |
| | | 76. | 78. | 148. | 157. |
| 125 250 | 78. 82. | £2. | 82. | | 156. |
| | 84. | 82. | 84. | 148. 143. | 149. |
| 500 | | | | | |
| 1000 | 86. 87. | 84. 84. | 84. 86. | 132. | 146. |
| 2000 | | | 83. | 132. | 144. |
| 4000 | 86. | 64. 76 | | 129. | 141. |
| 8000 | 79. | 79. | 76. | 127. | 140. |
| 16000 | 69. | 71. | 68. | 113. | 130. |

CONFIGURATION 48
FINAL PRECHAMBER PRESSURE ATOMIZER MCD A
POWER SETTING 100
READING NO. 804

| | | MICROPHENE | POSITION | | |
|--------------|--------------|-------------|----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 72. | 69. | 71. | 138. | 155. |
| 63 | 81. | 79. | 80. | 136. | 154. |
| 80 | 68. | £6. | 67. | 140. | 153. |
| 100 | 73. | 72. | 72. | 139. | 156. |
| 125 | 76. | 72. | 74. | 137. | 155. |
| 160 | 76. | 73. | 75. | 151. | 171. |
| 200 | 76. | 75. | 77. | 151. | 166. |
| 250 | 79. | 77. | 77. | 136. | 156. |
| 315 | 79. | 75. | 80. | 143. | 157. |
| 400 | 78. | 77. | 78. | 142. | 157. |
| 500 | 82. | 80. | 82. | 147. | 158. |
| 630 | 82. | 80. | 81. | 131. | 156. |
| 800 | 82. | .08 | 81. | 131. | 153. |
| 1000 | 83. | 81. | 81. | 128. | 152. |
| 1250 | 8 <i>2</i> • | EO. | 80. | 126. | 152. |
| 1600 | 83. | 81. | 81. | 128. | 151. |
| 2000 | 82. | 80. | 81. | 129. | 150. |
| 2500 | e3 . | 75. | 82. | 125. | 151. |
| 2150 | 63. | 82. | 81. | 126. | 147. |
| 4000 | 82. | 80. | 80. | 123. | 149. |
| 5000 | 80. | 78. | 78. | 123. | 148. |
| 6300 | 79. | 77. | 76. | 127. | 149. |
| 8000 | 75. | 74. | 72. | 119. | 147. |
| 10000 | 72. | 72. | 68. | 115. | 143. |
| 12500 | 68. | 69. | 66. | 109. | 140. |
| 16000 | 63. | 65. | 63. | 108. | 130. |
| 20000 | 58. | 59. | 58. | 107. | 124. |
| 007445 5050 | | | | | 22.0 |
| OCTAVE FREQ | 10.14 | | | | |
| 63 | 82. | .0 3 | 81. | 143. | 159. |
| 125 | 80. | 77. | 79. | 151. | 171. |
| 250 | 83. | 82. | 83. | 152. | 167. |
| 500 | 86. | 64. | 85. | 148. | 162. |
| 1000 | E7. | £5 . | 85. | 134. | 157. |
| 2000 | 87. | 85. | ٤6. | 132. | 155. |
| 4000 | 87. | E5 . | 85. | 129. | 153. |
| 8000 | 81. | 80. | 78. | 128. | 152. |
| 16000 | 70. | 71. | 68. | 113. | 141. |
| | | | | | |

CONFIGURATION 49
FINAL MODIFIED CONVENTIONAL MOD A VAR GEOM 0/0 OPEN DZ = 30
POWER SETTING 55
READING NO. 824

| | | MICROPHONE | POSITION | | |
|--------------|-----|------------|----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 70. | 67. | 70. | 136. | 144. |
| 63 | 76. | 76. | 78. | 135. | 146. |
| 80 | 66. | 66. | 67. | 135. | 147. |
| 100 | 69. | 68. | 68. | 136. | 153. |
| 125 | 73. | 72. | 75. | 134. | 150. |
| 160 | 73. | 71. | 73. | 134. | 150. |
| 200 | 74. | 72. | 75. | 134. | 150. |
| 250 | 76. | 74. | 75. | 134. | 149. |
| 315 | 79. | 75. | 78. | 134. | 145. |
| 400 | 77. | 75. | 77. | 133. | 143. |
| 500 | 77. | 77. | 78. | 133. | 143. |
| 630 | 78. | 78. | 78. | 134. | 142. |
| 800 | 79. | 78. | 79. | 133. | 141. |
| 1000 | 80. | 78. | 79. | i32. | 140. |
| 1250 | 96. | 92. | 91. | 131. | 141. |
| 1600 | 64. | 81. | 81. | 129. | 140. |
| 2000 | 79. | 78. | 79. | 128. | 139. |
| 2500 | 86. | 87. | 87. | 127. | 138. |
| 3150 | 80. | 79. | 79. | 125. | 136. |
| 4000 | 81. | 78. | 79. | 124. | 137. |
| 5000 | 79. | 77. | 77. | 121. | 137. |
| 6300 | 76. | 76. | 74. | 121. | 136. |
| 8000 | 76. | 75. | 74. | 119. | 139. |
| 10000 | 74. | 75. | 73. | 117. | 127. |
| 12500 | 68. | 69. | 66. | 111. | 123. |
| 16000 | 63. | 66. | 64. | 106. | 121. |
| 20000 | 60. | 60. | 61. | 100. | 121. |
| OCTAVE FREQ | | | | | |
| 63 | 77. | 77. | 79. | 140. | 151. |
| 125 | 77. | 75. | 78. | 140. | 156. |
| 250 | 82. | 79. | 81. | 139. | 153. |
| 500 | 82. | 82. | 82. | 138. | 147. |
| 1000 | 96. | 92. | 92. | 137. | 145. |
| 2000 | 99. | 88. | 88. | 133. | 144. |
| 4000 | 85. | 83. | 83. | 128. | 141. |
| 8000 | 90. | 80. | 78. | 124. | 141. |
| 16000 | 70. | 71. | 69. | 112. | 127. |

CONFIGURATION 50
FINAL MODIFIEC CONVENTIONAL MOD A VAR GECM 0/0 CFEN DZ = 50
POWER SETTING 10
READING NO. 617

| | | MICROPHO | NE POSITION | | |
|--------------|-----|----------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 74. | 73. | 0. | 123. | 142. |
| 63 | 77. | 73. | 0. | 126. | 141- |
| 80 | 75. | 73. | 0. | 127. | 143. |
| 100 | 76. | 74. | 0. | 134. | 149. |
| 125 | 78. | 73. | 0. | 129. | 144. |
| 160 | 79. | 73. | 0. | 129. | 144. |
| 200 | 79. | 72. | 0. | 128. | 143. |
| 250 | 82. | 74. | 0. | 126. | 141. |
| 315 | 84. | 75. | 0. | 126. | 139. |
| 400 | 84. | 72. | 0. | 124. | 137. |
| 500 | 27. | 74. | 0. | 125. | 139. |
| 630 | 86. | 74. | 0. | 124. | 137. |
| 800 | ٤5. | 72. | 0. | 124. | 137. |
| 1000 | 84. | 72. | 0. | 123. | 137. |
| 1250 | 84. | 71. | 0. | 123. | 136. |
| 1600 | 85. | 72. | 0. | 122. | 137. |
| 2000 | 84. | 71. | 0. | 121. | 135. |
| 2500 | 84. | 71. | 0. | 119. | 133. |
| 3150 | 84. | 71. | 0. | 118. | 132. |
| 4000 | 85. | 73. | 0. | 122. | 135. |
| 5000 | 81. | 65. | 0. | 117. | 131. |
| 6300 | .08 | 68. | 0. | 120. | 134. |
| 8000 | 79. | 67. | 0. | 113. | 133. |
| 10000 | 78. | 65. | 0. | 109. | 129. |
| 12500 | 76. | 64. | 0. | 104. | 125. |
| 16000 | 76. | 64. | 0. | 98. | 122. |
| 20000 | 66. | 55. | 0. | 92. | 116. |
| CCTAVE FREQ | | | | | |
| 63 | 80. | 78. | 0. | 130. | 147. |
| 125 | 83. | 76. | 0. | 136. | 151. |
| 250 | 87. | 75. | 0. | 132. | 146. |
| 500 | 91. | 78. | 0. | 129. | 143. |
| 1000 | 89. | 76. | 0. | 128. | 141. |
| 2000 | 89. | 76. | 0. | 126. | 140. |
| 4000 | 88. | 76. | 0. | 124. | 138. |
| 8000 | 84. | 72. | 0. | 121. | 137. |
| 16000 | 79. | 67. | 0. | 105. | 127. |

CONFIGURATION 50
FINAL MODIFIED CONVENTIONAL MOD A VAR GEOM 0/0 OPEN DZ = 50
POWER SETTING 55
READING NO. 823

| | | MICROPHONE | POSITION | | |
|--------------|-----|------------|----------|------|--------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 77. | 70. | 136. | 145. |
| 63 | 77. | 78. | 78. | 136. | 146. |
| 80 | 67. | 74. | 67. | 138. | 148. |
| 100 | 69. | 74. | 69. | 142. | 155. |
| 125 | 72. | 74. | 73. | 138. | 150. |
| 160 | 73. | 73. | 73. | 139. | 151. |
| 200 | 75. | 73. | 74. | 139. | 151. |
| 250 | 76. | 75. | 75. | 136. | 148. |
| 315 | 77. | 75. | 77. | 135. | 144. |
| 400 | 76. | 75. | 76. | 133. | 14'. |
| 500 | 78. | 76. | 77. | 133. | 14 . • |
| 630 | 78. | 77. | 78. | 133. | 141. |
| 800 | 79. | 73. | 78. | 132. | 1 70. |
| 1000 | 81. | 79. | 80. | 131. | 139. |
| 1250 | 98. | 97. | 94. | 131. | 140. |
| 1600 | 86. | 85. | 84. | 130. | 140. |
| 2000 | 19. | 78. | 79. | 130. | 139. |
| 2500 | 85. | 84. | 88. | 129. | 138. |
| 3150 | 80. | 78. | 79. | 127. | 135. |
| 4000 | 80. | 78. | 79. | 127. | 137. |
| 5000 | 78. | 77. | 77. | 126. | 137. |
| 6300 | 76. | 76. | 74. | 126. | 135. |
| 8000 | 76. | 76. | 74. | 125. | 136. |
| 10000 | 75. | 74. | 73. | 117. | 126. |
| 12500 | 69. | 69. | 66. | 112. | 123. |
| 16000 | 64. | 66. | 64. | 106. | 120. |
| 20000 | 60. | 60. | 61. | 100. | 120. |
| OCTAVE FREQ | | | | | |
| 63 | 78. | 81. | 79. | 142. | 151. |
| 125 | 76. | 78. | 77. | 145. | 157. |
| 250 | 81. | 79. | 80. | 142. | 153. |
| 500 | 82. | 81. | 82. | 138. | 146. |
| 1000 | 98. | 97. | 94. | 136. | 144. |
| 2000 | 89. | 88. | 90. | 134. | 144. |
| 4000 | 84. | 82. | 83. | 131. | 141. |
| 8000 | 80. | 80. | 78. | 129. | 139. |
| 16000 | 71. | 71. | 69. | 113. | 126. |

CONFIGURATION 50
FINAL MODIFIED CONVENTIONAL MOD A VAR GEOM C/O OPEN DZ = 50
PCWER SETTING 75
READING NO. 825

| | | MICKUPHO | NE POSTTION | N | |
|--------------|------|----------|-------------|------|------|
| 1/3 OCT FPEO | 1 | 2 | 3 | 4 | 5 |
| 57 | 70. | 75. | 69. | 140. | 146. |
| 63 | 77. | 17. | 77. | 138. | 146. |
| 80 | 69. | 73. | 67. | 139. | 149. |
| 100 | 72. | 74. | 70. | 140. | 156. |
| 125 | 74. | 74. | 74. | 139. | 151. |
| 160 | 74. | 73. | 74. | 138. | 154. |
| 200 | 75. | 74. | 77. | 138. | 155. |
| 250 | 76. | 75. | 77. | 138. | 151. |
| 315 | 78. | 76. | 77. | 139. | 147. |
| 400 | 77. | 75. | 77. | 138. | 144. |
| 500 | 78. | 76. | 79. | 137. | 143. |
| 630 | 78. | 78. | 78. | 136. | 144. |
| 800 | 79. | 78. | яО. | 136. | 142. |
| 1000 | 80. | 79. | 79. | 137. | 141. |
| 1250 | 78. | 77. | 78. | 134. | 142. |
| 1600 | 90. | 78. | 79. | 134. | 140. |
| 2000 | 80. | 79. | 79. | 132. | 140. |
| 2500 | 84. | 78. | 79. | 129. | 140. |
| 3150 | 80. | 78. | 79. | 131. | 136. |
| 4600 | 80. | 78. | 78. | 128. | 137. |
| 5000 | 78. | 77. | 76. | 125. | 138. |
| 6300 | 77. | 77. | 75. | 171. | 136. |
| 8000 | 19. | 77. | 76. | 119. | 138. |
| 10000 | 76. | 76. | 75. | 113. | 129. |
| 1 2500 | 71. | 70. | 68. | 112. | 126. |
| 16000 | 66. | 69. | 65. | 111. | 121. |
| 20000 | 63. | 62. | 62. | 109. | 120. |
| OCTAVE FRED | | | | | |
| 63 | 78. | 80. | 78. | 144. | 152. |
| 125 | 7 P. | 78. | 78. | 144. | 159. |
| 250 | 81. | 80. | 82. | 143. | 157. |
| 500 | A2. | 91. | R3. | 142. | 148. |
| 1000 | 84. | 83. | 84. | 141. | 146. |
| 2000 | 87. | 83. | 84. | 137. | 145. |
| 4000 | 84. | 82. | 83. | 133. | 142. |
| 9000 | 82. | 81. | 80. | 124. | 140. |
| 16000 | 73. | 73. | 70. | 116. | 128. |

CONFIGURATION 50

FINAL MODIFIED CONVENTIONAL MOD A VAR GEOM 0/0 OPEN DZ = 50

PCWER SETTING 100

READING NO. 828

| | | MICROPHONE | POSITION | | |
|--------------|-----|------------|----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 70. | 68. | 69. | 142. | 146. |
| 63 | 77. | 76. | 77. | 140. | 146. |
| 90 | 68. | 67. | 67. | 138. | 150. |
| 100 | 73. | 72. | 72. | 140. | 156. |
| 125 | 75. | 75. | 75. | 142. | 152. |
| 160 | 74. | 72. | 74. | 139. | 155. |
| 200 | 76. | 75. | 78. | 139. | 156. |
| 250 | 78. | 76. | 78. | 138. | 153. |
| 315 | 78. | 76. | 78. | 138. | 148. |
| 400 | 77. | 75. | 76. | 137. | 145. |
| 500 | 78. | 77. | 79. | 136. | 144. |
| 630 | 79. | 78. | 79. | 138. | 145. |
| 0C8 | 31. | 78. | 80. | 136. | 143. |
| 1000 | 91. | 79. | 80. | 133. | 141. |
| 1250 | 79. | 77. | 77. | 132. | 142. |
| 1600 | 80. | 79. | 79. | 132. | 142. |
| 2000 | 80. | 79. | 80. | 130. | 140. |
| 25 00 | 82. | 80. | 80. | 127. | 141. |
| 3150 | 82. | 80. | 80. | 125. | 138. |
| 4000 | 82. | 80. | 79. | 123. | 138. |
| 5700 | 81. | 81. | 78. | 119. | 139. |
| 6300 | 81. | 80. | 76. | 118. | 138. |
| 8000 | 83. | 79. | 78. | 115. | 142. |
| 10000 | 82. | 81. | 78. | 111. | 131. |
| 1 2500 | 76. | 75. | 70. | 111. | 126. |
| 16000 | 70. | 71. | 67. | 109. | 121. |
| 20000 | 67. | 66. | 63. | 108. | 120. |
| OCTAVE FREQ | | | | | |
| 63 | 78. | 77. | 78. | 145. | 153. |
| 125 | 79. | 78. | 79. | 145. | 159. |
| 250 | 82. | 80. | 83. | 143. | 158. |
| 500 | 83. | 82. | 83. | 142. | 149. |
| 1000 | 85. | 83. | 84. | 139. | 147. |
| 2000 | 86. | 84. | 84. | 135. | 146. |
| 4000 | 86. | 85. | 84. | 128. | 143. |
| 8000 | 87. | 85. | 82. | 120. | 144. |
| 16000 | 77. | 77. | 72. | 114. | 128. |

CCNFIGURATION 51
FINAL MODIFIED CONVENTIONAL MCD A VAR GECM 0/0 CFEN DZ = 68
POWER SETTING 10
READING NO. E16

| | | MICROPHO | NE PCSITIC | N | |
|--------------|-----|------------|------------|------|------|
| 1/3 DCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 67. | £3. | U. | 113. | 141. |
| 63 | 70. | 68. | 0. | 119. | 143. |
| 30 | 66. | 63. | 0. | 119. | 145. |
| 100 | 68. | £6. | 0. | 126. | 150. |
| 125 | 70. | 67. | 0. | 121. | 143. |
| 160 | 71. | .83 | 0. | 120. | 145. |
| 200 | 71. | €8. | v. | 122. | 144. |
| 250 | 73. | 71. | v. | 119. | 141. |
| 315 | 74. | 73. | 0. | 117. | 138. |
| 400 | 73. | 74. | 0. | 115. | 136. |
| 500 | 76. | 76. | 0. | 115. | 138. |
| 630 | 76. | 76. | 0. | 116. | 137. |
| 800 | 76. | 14. | 0. | 116. | 137. |
| 1000 | 76. | 74. | v. | 114. | 137. |
| 1250 | 75. | 73. | 0. | 114. | 137. |
| 1600 | 7£. | 73. | 0. | 115. | 136. |
| 2000 | 74. | 73. | 0. | 114. | 135. |
| 2500 | 75. | 73. | 0. | 112. | 134. |
| 3150 | 76. | 74. | 0. | 110. | 131. |
| 4000 | 76. | 74. | 0. | 113. | 134. |
| 5000 | 73. | 70. | 0. | 111. | 131. |
| 6300 | 70. | 69. | 0. | 110. | 133. |
| 8000 | 70. | ٤5. | 0. | 105. | 128. |
| 10000 | 66. | 67. | 0. | 102. | 121. |
| 12500 | 62. | 65. | 0. | 97. | 116. |
| 16000 | 60. | 64. | 0. | 93. | 112. |
| 20000 | 55. | 57. | 0. | 90. | 111. |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 70. | u. | 123. | 148. |
| 125 | 75. | 72. | v. | 128. | 152. |
| 250 | 78. | 76. | 0. | 125. | 146. |
| 500 | 8C. | 80. | v. | 120. | 142. |
| 1000 | 80. | 78. | 0. | 120. | 142. |
| 2000 | 80. | 78. | 0. | 119. | 140. |
| 4000 | 80. | 78. | ů. | 116. | 137. |
| 9000 | 74. | 73. | 0. | 112. | 134. |
| 16000 | 65. | 68. | 0. | 99. | 118. |

CONFIGURATION 51
FINAL MODIFIED CONVENTIONAL MOD A VAR GECM 0/0 CPEN DZ = 68
PCWER SETTING 25
READING NO. 818

| | | MICROPHO | NE POSITION | İ | |
|--------------|------------|----------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 67. | 74. | 0. | 117. | 144. |
| 63 | 70. | 74. | 0. | 123. | 146. |
| 80 | 65. | 72. | 0. | 116. | 146. |
| 100 | 68. | 72. | 0. | 117. | 151. |
| 125 | 69. | 71. | 0. | 118. | 147. |
| 160 | 71. | 68. | 0. | 117. | 150. |
| 200 | 70. | 70. | 0. | 119. | 147. |
| 250 | 73. | 71. | 0. | 118. | 143. |
| 315 | 74. | 70. | 0. | 117. | 141. |
| 400 | 74. | 72. | U. | 117. | 139. |
| 500 | 77. | 73. | 0. | 117. | 140. |
| 630 | 77. | 74. | 0. | 117. | 139. |
| 800 | 76. | 73. | 0. | 117. | 139. |
| 1000 | 75. | 71. | 0. | 116. | 139. |
| 1250 | 75. | 71. | 0. | 115. | 139. |
| 1600 | 76. | 12. | 0. | 115. | 138. |
| 2000 | 78. | 72. | 0. | 114. | 138. |
| 2500 | 76. | 71. | 0. | 113. | 137. |
| 3150 | 77. | 72. | 0. | 111. | 134. |
| 4000 | 77. | 72. | 0. | 111. | 137. |
| 5000 | 74. | 69. | 0. | 108. | 135. |
| 6300 | 77. | 73. | 0. | 107. | 137. |
| 8000 | 81. | 77. | 0. | 104. | 132. |
| 10000 | 78. | 72. | 0. | 102. | 126. |
| 12500 | 73. | 67. | 0. | 100. | 121. |
| 16000 | 71. | 66. | 0. | 96. | 115. |
| 20000 | 62. | 57. | 0. | 91. | 112. |
| | | | | | |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 78. | 0. | 125. | 150. |
| 125 | 74. | 75. | 0. | 122. | 154. |
| 250 | 77. | 75. | 0. | 123. | 149. |
| 500 | 81. | 78. | o. | 122. | 144. |
| 1000 | 80. | 77. | 0. | 121. | 144. |
| 2000 | 82. | 76. | 0. | 119. | 142. |
| 4000 | 81. | 76. | 0. | 115. | 140. |
| 8000 | 84. | 79. | 0. | 110. | 138. |
| 16000 | 75. | 70. | 0. | 102. | 122. |

CONFIGURATION 51
FINAL MODIFIEC CUNVENTIONAL MOD A VAR GECM 0/0 CPEN DZ = 68
PCWER SETTING 40
REACING NO. 819

| | | MICROPHO | NE POSITIO | - N | |
|--------------|-----|----------|------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 71. | 68. | 0. | 129. | 148. |
| 63 | 76. | 74. | 0. | 128. | 152. |
| 80 | 67. | 65. | 0. | 128. | 155. |
| 100 | 69. | €8. | 0. | 129. | 157. |
| 125 | 71. | és. | 0. | 128. | 152. |
| 160 | 72. | 71. | v. | 128. | 154. |
| 200 | 74. | 72. | 0. | 128. | 153. |
| 250 | 74. | 73. | 0. | 128. | |
| 315 | 74. | 74. | 0. | 127. | 150. |
| 400 | 75. | 73. | 0. | 127. | 147. |
| 500 | 77. | 76. | o. | 127. | 145. |
| 630 | 77. | 77. | 0. | 127. | 146. |
| 800 | 77. | 75. | 0. | 127. | 145. |
| 1000 | 77. | 75. | o. | 125. | 144. |
| 1250 | 76. | 75. | ő. | | 144. |
| 1600 | 75. | 77. | 0. | 125. | 144. |
| 2000 | 79. | 78. | ő. | 124. | 144. |
| 2500 | 78. | 76. | v. | 123. | 144. |
| 3150 | 79. | 77. | 0. | 122. | 143. |
| 4000 | 79. | 77. | 0. | 121. | 139. |
| 5000 | 77. | 74. | 0. | 119. | 143. |
| 6300 | 79. | 77. | 0. | 117. | 142. |
| 8000 | 84. | 80. | | 115. | 143. |
| 10000 | 78. | 75. | 0. | 114. | 140. |
| 12500 | 72. | 73. | 0. | 111. | 133. |
| 16000 | 65. | 75. | 0. | 109. | 128. |
| 20000 | 66. | 68. | 0. | 105. | 122. |
| | • | | 0. | 102. | 120. |
| OCTAVE FREQ | | | | | |
| 63 | 78. | 75. | • | | 200 |
| 125 | 76. | 74. | 0. | 133. | 157. |
| 250 | 79. | 78. | 0. | 133. | 160. |
| 500 | 81. | E O 4 | 0. | 132. | 155. |
| 1000 | 81. | 80. | 0. | 132. | 150. |
| 2000 | 83. | 62. | 0. | 131. | 149. |
| 4000 | 83. | | 0. | 128. | 148. |
| 8000 | 86. | 81. | 0. | 124. | 146. |
| 16000 | 74. | 84. | 0. | 118. | 145. |
| - | 110 | 78. | 0. | 111. | 129. |

CONFIGURATION 51
FINAL MODIFIED CONVENTIONAL MOD A VAR GEOM 0/0 DPEN DZ = 68
POWER SETTING 55
READING NO. 822

| | | MICROPHO | NE POSITION | | |
|--------------|-----|----------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 68. | 76. | 135. | 145. |
| 63 | 77. | 76. | 79. | 135. | 147. |
| 80 | 66. | 65. | 73. | 134. | 149. |
| 100 | 69. | 68. | 74. | 135. | 155. |
| 125 | 75. | 72. | 75. | 134. | 150. |
| 160 | 74. | 72. | 74. | 134. | 151. |
| 200 | 74. | 73. | 76. | 133. | 150. |
| 25 0 | 76. | 75. | 76. | 133. | 146. |
| 315 | 77. | 76. | 77. | 133. | 143. |
| 400 | 76. | 75. | 75. | 131. | 141. |
| 500 | 77. | 76. | 77. | 131. | 141. |
| 630 | 78. | 77. | 77. | 132. | 141. |
| 800 | 78. | 78. | 79. | 132. | 140. |
| 1000 | 80. | 79. | 79. | 131. | 139. |
| 1250 | 99. | 96. | 95. | 130. | 139. |
| 1600 | 88. | 85. | 84. | 129. | 139. |
| 2000 | 79. | 78. | 78. | 128. | 138. |
| 2500 | 85. | 86. | 86. | 127. | 139. |
| 3150 | 80. | 78. | 79. | 126. | 135. |
| 4000 | 79. | 78. | 78. | 124. | 137. |
| 5000 | 79. | 77. | 76. | 122. | 138. |
| 6300 | 77. | 76. | 75. | 120. | 136. |
| 8000 | 79. | 76. | 76. | 117. | 136. |
| 10000 | 76. | 76. | 73. | 113. | 127. |
| 1 2500 | 67. | 68. | 66. | 110. | 122. |
| 16000 | 63. | 67. | 64. | 104. | 120- |
| 20000 | 60• | 61. | 61. | 99. | 120. |
| OCTAVE FREQ | | | | | |
| | 70 | 77 | 0.1 | 120 | 153 |
| 63 | 78. | 77. | 81. | 139. | 152. |
| 125 | 78. | 76. | 79. | 139. | 157. |
| 250 | 81. | 80. | 81. | 138. | 152. |
| 500 | 82. | 81. | 81. | 136. | 146. |
| 1000 | 99. | 96• | 95. | 136. | 144. |
| 2000 | 90. | 89. | 89. | 133. | 143. |
| 4000 | 84. | 82. | 83. | 129. | 142. |
| 8000 | 82. | 81. | 80. | 122. | 139. |
| 16000 | 69. | 71. | 69. | 111. | 126. |

CONFIGURATION 51
FINAL MODIFIED CONVENTIONAL MOD A VAR GEOM 0/0 OPEN DZ = 68
PCWER SETTING 75
READING NO. 826

| | | MICROPHO | NE POSITION | | |
|--------------|-----|----------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 68. | 69. | 131. | 147. |
| 63 | 77. | 76. | 77. | 129. | 147. |
| 80 | 68. | 67. | 67. | 129. | 149. |
| 100 | 72. | 70. | 71. | 130. | 156. |
| 125 | 74. | 72. | 76. | 130. | 152. |
| 160 | 74. | 72. | 74. | 127. | 154. |
| 200 | 75. | 73. | 76. | 129. | 153. |
| 250 | 77. | 75. | 76. | 130. | 149. |
| 315 | 77. | 76. | 77. | 126. | 145. |
| 400 | 77. | 76. | 76. | 126. | 143. |
| 500 | 78. | 76. | 79. | 127. | 142. |
| 630 | 78. | 78. | 78. | 127. | 142. |
| 800 | 79. | 78. | 78. | 127. | 141- |
| 1000 | 80. | 77. | 80. | 125. | 140. |
| 1250 | 80. | 78. | 78. | 123. | 141. |
| 1600 | 79. | 78. | 79. | 123. | 140. |
| 2000 | 81. | 79. | 80. | 122. | 139. |
| 2500 | 83. | 78. | 79. | 123. | 140. |
| 3150 | 80. | 79. | 79. | 117. | 136. |
| 4000 | 80. | 78. | 78. | 121. | 137. |
| 5000 | 79. | 78. | 76. | 116. | 138. |
| 6300 | 77. | 77. | 76. | 113. | 137. |
| 8000 | 79. | 78. | 77. | 111. | 139. |
| 10000 | 78. | 79. | 77. | 107. | 129. |
| 12500 | 75. | 75. | 70. | 109. | 125. |
| 16000 | 70. | 72. | 67. | 108. | 122. |
| 20000 | 66. | 65. | 64. | 108. | 121. |
| OCTAVE FREQ | | | | | |
| 63 | 78. | 77. | 78. | 135. | 153. |
| 125 | 78. | 76. | 79. | 134. | 159. |
| 250 | 81. | 80. | 81. | 133. | 155. |
| 500 | 82. | 82. | 83. | 131. | 147. |
| 1000 | 84. | 82. | 84. | 130. | 145. |
| 2000 | 86. | 83. | 84. | 127. | 144. |
| 4000 | 94. | 83. | 83. | 123. | 142. |
| 8000 | 83. | 83. | 81. | 116. | 141. |
| 16000 | 77. | 77. | 72. | 113. | 128. |

CONFIGURATION 51
FINAL MODIFIED CONVENTIONAL MOD A VAR GEOM 0/0 OPEN DZ = 68POWER SETTING 100
READING NO. 827

| | | MICROPHO | NE POSITION | ł | |
|--------------|-----|----------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 73. | 69. | 136. | 142. |
| 63 | 77. | 77. | 77. | 134. | 142. |
| 80 | 68. | 72. | 67. | 133. | 145. |
| 100 | 72. | 73. | 70. | 135. | 151. |
| 125 | 74. | 75. | 76. | 132. | 147. |
| 160 | 74. | 73. | 74. | 132. | 146. |
| 200 | 74. | 73. | 75. | 132. | 146. |
| 250 | 78. | 75. | 77. | 133. | 146. |
| 315 | 78. | 77. | 77. | 131. | 145. |
| 400 | 77. | 75. | 76. | 131. | 143. |
| 500 | 78. | 77. | 79. | 130. | 143. |
| 630 | 79. | 77. | 78. | 129. | 143. |
| 800 | 80. | 78. | 79. | 129. | 142. |
| 1000 | 81. | 78. | 79. | 129. | 140. |
| 1250 | 79. | 78. | 78. | 128. | 141. |
| 1600 | 81. | 80. | 80. | 125. | 141. |
| 2000 | 81. | 81. | 81. | 123. | 140. |
| 2500 | 81. | 81. | 82. | 120. | 140. |
| 3150 | 83. | 81. | 81. | 119. | 137. |
| 4000 | 83. | 81. | 80. | 118. | 138. |
| 5000 | 81. | 80. | 78. | 114. | 139. |
| 6300 | 80. | 81. | 78. | 112. | 138. |
| 8000 | 82. | 81. | 80. | 111. | 139. |
| 10000 | 85. | 86. | 86. | 110. | 131. |
| 12500 | 82. | 82. | 78. | 109. | 126. |
| 16000 | 76. | 77. | 73. | 108. | 122. |
| 20000 | 72. | 70. | 69. | 108. | 121. |
| | | | | | |
| OCTAVE FREQ | | | 7.0 | | |
| 63 | 78. | 79. | 78. | 139. | 148. |
| 125 | 78. | 79. | .9. | 138. | 153. |
| 250 | 82. | 80. | 81. | 137. | 150. |
| 500 | 83. | 81. | 83. | 135. | 148. |
| 1000 | 85. | 83. | 83. | 133. | 146. |
| 2000 | 86. | 85. | 86. | 128. | 145. |
| 4000 | 87. | 85. | 85. | 122. | 143. |
| 8000 | 88. | 88. | 87. | 116. | 142. |
| 16000 | 83. | 83. | 80. | 113. | 128. |

CONFIGURATION 52 T63-A-5A BASELINE (2ND REPEAT) POWER SETTING 10 READING NO. 855

| | | MICROPHO | NE POSITION | | |
|--------------|------------|-------------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 65. | 64. | 63. | 129. | 139. |
| 63 | 69. | 67. | 64. | 136. | 141. |
| 80 | 66. | 65. | 66. | 134. | 142. |
| 100 | 67. | 67. | 68. | 138. | 149. |
| 125 | 69. | 66. | 65. | 137. | 144. |
| 160 | 70. | 68. | 67. | 138. | 145. |
| 200 | 70. | 68. | 68. | 137. | 143. |
| 250 | 73. | 70. | 70. | 132. | 142. |
| 315 | 75. | 73. | 74. | 137. | 141. |
| 400 | 72. | 72. | 71. | 134. | 139. |
| 500 | 76. | 75. | 74. | 138. | 141. |
| 630 | 76. | 74. | 73. | 139. | 139. |
| 800 | 76. | 75. | 74. | 127. | 138. |
| 1000 | 76. | 74. | 74. | 124. | 138. |
| 1250 | 76. | 74. | 71. | 124. | 137. |
| 1600 | 76. | 75. | 73. | 125. | 136. |
| 2000 | 75. | 73. | 71. | 123. | 135. |
| 2500 | 75. | 74. | 72. | 122. | 133. |
| 3150 | 77. | 74. | 72. | 127. | 134. |
| 4000 | 77. | 74. | 72. | 122. | 140. |
| 5000 | 74. | 70. | 68. | 122. | 133. |
| 6300 | 71. | 70. | 66. | 122. | 132. |
| 8000 | 68. | 67. | 63. | 117. | 128. |
| 10000 | 65. | 65. | 60. | 114. | 122. |
| 12500 | 60. | 63. | 57. | 111. | 117. |
| 16000 | 56. | 59. | 55. | 109. | 114. |
| 20000 | 52. | 54. | 50. | 108. | 111. |
| OCTAVE FREQ | | | | | |
| 63 | 72. | 70. | 4.0 | 120 | 144 |
| 125 | | | 69. | 139. | 146. |
| 250 | 74. | 72. | 72. | 142. | 151. |
| 500 | 78. | 76. | 76. | 141. | 147. |
| 1000 | 80. | 79. | 78. | 142. | 145. |
| 2000 | 81. | 79. | 78. | 130. | 142. |
| 4000 | 80. 81. | 79 . | 77. | 128. | 140. |
| 8000 | | 78. | 76. | 129. | 142. |
| 16000 | 73. | 73. | 68. | 124. | 134. |
| 1 90 00 | 62. | 65. | 60. | 114. | 119. |

CONFIGURATION 52 T63-A-5A BASELINE (2ND REPEAT) POWER SETTING 25 READING NO. 856

| | | MICROPHONE | POSITION | | |
|--------------|-----|------------|----------|------|------|
| 1/3 OCT FREQ | 1 | ? | 3 | 4 | 5 |
| 50 | 65. | 73. | 67. | 131. | 142. |
| 63 | 68. | 71. | 69. | 136. | 143. |
| 80 | 65. | 67. | 67. | 137. | 145. |
| 100 | 69. | 66. | 69. | 139. | 150. |
| 125 | 7C. | 67. | 68. | 139. | 147. |
| 160 | 69. | 67. | 69. | 139. | 148. |
| 200 | 71. | 69. | 70. | 137. | 146. |
| 250 | 73. | 71. | 72. | 133. | 144. |
| 315 | 75. | 73. | 76. | 137. | 142. |
| 400 | 73. | 73. | 72. | 136. | 140. |
| 500 | 78. | 76. | 77. | 138. | 142. |
| 630 | 77. | 76. | 76. | 142. | 142. |
| 800 | 76. | 76. | 77. | 128. | 139. |
| 1000 | 78. | 75. | 77. | 122. | 140. |
| 1250 | 77. | 75. | 75. | 122. | 139. |
| 1600 | 78. | 76. | 76. | 125. | 138. |
| 2000 | 77. | 77. | 76. | 121. | 136. |
| 2530 | 77. | 75. | 75. | 120. | 133. |
| 3150 | 79. | 76. | 76. | 127. | 137. |
| 4000 | 78. | 75. | 74. | 120. | 140. |
| 5000 | 76. | 72. | 71. | 122. | 135. |
| 6300 | 73. | 72. | 69. | 123. | 136. |
| 8000 | 69. | 68. | 65. | 114. | 131. |
| 10300 | 66. | 67. | 64. | 109. | 127. |
| 12500 | 62. | 64. | 61. | 108. | 120. |
| 16000 | 58. | 62. | 59. | 108. | 115. |
| 20000 | 53. | 55. | 55. | 107. | 111. |
| OCTAVE FRED | | | | | |
| 63 | 71. | 76. | 73. | 140. | 148. |
| 125 | 74. | 71. | 73. | 144. | 153. |
| 250 | 78. | 76. | 78. | 141. | 149. |
| 500 | 81. | 80. | 80. | 144. | 146. |
| 1000 | 82. | 80. | 81. | 130. | 144. |
| 2000 | 82. | 81. | 80. | 127. | 141. |
| 4000 | 83. | 79. | 79. | 129. | 143. |
| 8000 | 75. | 74. | 71. | 124. | 138. |
| 16000 | 64. | 66. | 64. | 112. | 122. |
| 10000 | 070 | 00• | 070 | | |

CONFIGURATION 52 T63-A-5A BASELINE (2ND REPEAT) POWER SETTING 40 READING NO. 857

| | | MICROPHO | NE POSITION | | |
|--------------|-----|----------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 68. | 73. | 65. | 132. | 142. |
| 63 | 70. | 73. | 69. | 137. | 144. |
| 80 | 66. | 66. | 67. | 138. | 145. |
| 100 | 69. | 68. | 69. | 140. | 151. |
| 125 | 68. | 70. | 67. | 140. | 148. |
| 160 | 70. | 69. | 69. | 142. | 150. |
| 200 | 71. | 70. | 71. | 140. | 148. |
| 250 | 72. | 72. | 73. | 137. | 145. |
| 315 | 74. | 73. | 75. | 137. | 144. |
| 400 | 72. | 72. | 73. | 138. | 141. |
| 500 | 75. | 76. | 77. | 139. | 144. |
| 630 | 75. | 77. | 76. | 143. | 144. |
| 800 | 76. | 77. | 77. | 131. | 142. |
| 1000 | 76. | 77. | 77. | 124. | 141. |
| 1250 | 77. | 76. | 76. | 123. | 141. |
| 1600 | 78. | 78. | 79. | 126. | 139. |
| 2000 | 78. | 78. | 79. | 123. | 137. |
| 2500 | 76. | 77. | 76. | 121. | 137. |
| 3150 | 79. | 78. | 78. | 128. | 138. |
| 4000 | 78. | 77. | 76. | 122. | 143. |
| 5000 | 76. | 75. | 73. | 124. | 139. |
| 6300 | 74. | 74. | 71. | 125. | 137. |
| 8000 | 71. | 72. | 71. | 116. | 133. |
| 10000 | 68. | 71. | 58. | 109. | 128. |
| 12500 | 65. | 69. | 66. | 108. | 124. |
| 16000 | 60. | 65. | 63. | 108. | 121. |
| 20000 | 55. | 58. | 59. | 107. | 120. |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 76. | 72. | 141. | 149. |
| 125 | 74. | 74. | 73. | 146. | 155. |
| 250 | 77. | 77. | 78. | 143. | 151. |
| 500 | 79. | 90. | 80. | 145. | 148. |
| 1000 | 81. | 81. | 81. | 132. | 146. |
| 2000 | 82. | 82. | 83. | 129. | 143. |
| 4000 | 83. | 82. | 81. | 130. | 145. |
| 8000 | 76. | 77. | 75. | 126. | 139. |
| 16000 | 67. | 71. | 68. | 112. | 127. |
| 10000 | 010 | | 004 | 1150 | 1210 |

CONFIGURATION 52 T63-A-5A BASELINE (2ND REPEAT) POWER SETTING 55 READING NO. 859

| | | MICROPHO | NE POSITIO | N | |
|--------------|-----|----------|------------|------|------|
| 1/3 OCT FREG | 1 | 2 | 3 | 4 | 5 |
| 50 | 60. | 61. | 68. | 134. | 142. |
| 63 | 68. | 72. | 74. | 138. | 145. |
| 80 | 57. | 65. | 66. | 140. | 148. |
| 100 | 60. | 68. | 68. | 141. | 153. |
| 125 | 64. | 71. | 74. | 142. | 150. |
| 160 | 63. | 70. | 73. | 141. | 151. |
| 200 | 64. | 71. | 72. | 141. | 148. |
| 250 | 67. | 74. | 75. | 138. | 147. |
| 315 | 69. | 76. | 78. | 137. | 144. |
| 400 | 67. | 74. | 76. | 139. | 143. |
| 500 | 69. | 77. | 79. | 146. | 145. |
| 630 | 70. | 78. | 78. | 144. | 145. |
| 800 | 70. | 77. | 79. | 134. | 143. |
| 1000 | 70. | 77. | 80. | 125. | 142. |
| 1250 | 69. | 76. | 78. | 123. | 142. |
| 1600 | 70. | 77. | 79. | 126. | 140. |
| 2000 | 71. | 78. | 79. | 125. | 138. |
| 2500 | 74. | 78. | 79. | 122. | 138. |
| 3150 | 72. | 78. | 79. | 127. | 138. |
| 4000 | 71. | 77. | 77. | 122. | 142. |
| 5000 | 70. | 75. | 74. | 126. | 140. |
| 63 0 0 | 68. | 75. | 74. | 126. | 138. |
| 8000 | 65. | 73. | 73. | 117. | 136. |
| 10000 | 61. | 70. | 71. | 110. | 130. |
| 12500 | 60. | 69. | 70. | 108. | 127. |
| 16000 | 55. | 66. | 67. | 107. | 121. |
| 20000 | 52. | 58. | 62. | 107. | 120. |
| OCTAVE FREG | | | | | |
| 63 | 69. | 74. | 75. | 143. | 150. |
| 125 | 67. | 75. | 77. | 146. | 156. |
| 250 | 72. | 79. | 80. | 144. | 151. |
| 500 | 74. | 81. | 83. | 146. | 149. |
| 1000 | 74. | 81. | 84. | 135. | 147. |
| 2000 | 77. | 82. | 84. | 129. | 144. |
| 4000 | 76. | 82. | 82. | 130. | 145. |
| 8000 | 70. | 78. | 78. | 127. | 141. |
| 16000 | 62. | 71. | 72. | 112. | 129. |

CCNFIGURATION 52 T63-A-5A BASELINF (2ND REPEAT) POWER SETTING 75 READING NO. 860

| | | MICROPHONE | POSITION | | |
|--------------|-----|------------|----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 70. | 70. | 68. | 136. | 147. |
| 63 | 78. | 76. | 74. | 138. | 148. |
| 09 | 68. | 66. | 67. | 142. | 150. |
| 100 | 71. | 70. | 70. | 143. | 155. |
| 125 | 74. | 72. | 74. | 143. | 150. |
| 160 | 74. | 72. | 72. | 143. | 152. |
| 200 | 74. | 73. | 74. | 142. | 150. |
| 250 | 76. | 76. | 76. | 139. | 147. |
| 315 | 78. | 77. | 78. | 136. | 146. |
| 400 | 77. | 75. | 77. | 140. | 144. |
| 500 | 79. | 77. | 78. | 140. | 145. |
| 630 | 80. | 78. | 79. | 145. | 146. |
| 800 | 79. | 78. | 80. | 135. | 143. |
| 1000 | 8C. | 79. | 81. | 127. | 142. |
| 1250 | 80. | 80. | 79. | 124. | 143. |
| 1600 | 81. | 78. | 79. | 126. | 141. |
| 2000 | 81. | 80. | 80. | 126. | 140. |
| 2500 | 80. | 80. | 78. | 122. | 140. |
| 31 50 | 82. | 79. | 80. | 126. | 139. |
| 4000 | 81. | 79. | 78. | 123. | 143. |
| 5000 | 81. | 78. | 77. | 129. | 141. |
| 6300 | 78. | 77. | 75. | 126. | 138. |
| 8000 | 77. | 76. | 74. | 119. | 139. |
| 10000 | 74. | 76. | 73. | 111. | 130. |
| 12500 | 72. | 75. | 71. | 109. | 129. |
| 16000 | 69. | 72. | 70. | 108. | 123. |
| 2000C | 65. | 66. | 66. | 107. | 120. |
| OCTAVE EDEO | | | | | |
| OCTAVE FREQ | 70 | | 7. | • | |
| 63 | 79. | 77. | 76. | 144. | 153. |
| 125 | 78. | 76. | 77. | 148. | 158. |
| 250 | 81. | 80. | 81. | 144. | 153. |
| 500 | 84. | A2. | 83. | 147. | 150. |
| 1000 | 84. | 84. | 85. | 136. | 147. |
| 2000 | 85. | 84. | 84. | 130. | 145. |
| 4000 | 86. | 83. | 83. | 131. | 146. |
| 8000 | 81. | 81. | 79. | 127. | 142. |
| 16000 | 74. | 77. | 74. | 113. | 130. |

CONFIGURATION 52 T63-A-5A BASELINE (2ND REPEAT) POWER SETTING 100 READING NO. 861

| | | MICROPHONE | POSITION | | |
|--------------|-----|------------|------------|------|-------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 71. | 69. | 70. | 143. | 149. |
| 63 | 77. | 76. | 77. | 142. | 151. |
| 6.8 | 68. | 67. | 68. | 145. | 152. |
| 100 | 72. | 71. | 73. | 146. | 155. |
| 125 | 74. | 73. | 76. | 144. | 152. |
| 160 | 75. | 73. | 73. | 145. | 154. |
| 200 | 75. | 74. | 75. | 145. | 151. |
| 250 | 78. | 17. | 78. | 141. | 148. |
| 315 | 78. | 77. | 78. | 136. | 147. |
| 400 | 77. | 76. | 77. | 141. | 146. |
| 500 | 78. | 77. | 78. | 142. | 146. |
| 630 | 81. | 79. | 79. | 147. | 148. |
| 800 | 81. | 79. | 80. | 138. | 146. |
| 1000 | 93. | 80. | 82. | 129. | 144. |
| 1250 | 80. | 79. | 78. | 125. | 145. |
| 1600 | 81. | 80. | 90. | 127. | 143. |
| 2000 | 82. | 80. | 80. | 129. | 141. |
| 2500 | 82. | 30. | 79. | 123. | 141. |
| 3150 | 94. | 80. | 81. | 126. | 141. |
| 4000 | 84. | 80. | 80. | 126. | 142. |
| 5000 | 83. | 79. | 79. | 130. | 141- |
| 6300 | 80. | 79. | 77. | 128. | 138. |
| 8000 | 79. | 78. | 77. | 121. | 141. |
| 10000 | 78. | 78. | 76. | 115. | 132. |
| 12500 | 76. | 78. | 75. | 117. | 131. |
| 16000 | 73. | 76. | 73. | 117. | 123. |
| 20300 | 70. | 70. | 70. | 117. | 1.20. |
| OCTAVE FREQ | | | | | |
| 63 | 78. | 77. | 78. | 148. | 156. |
| 125 | 79. | 77. | 79. | 150. | 159. |
| 250 | 82. | 81. | 82. | 147. | 154. |
| 500 | 84. | 82. | 83. | 149. | 152. |
| 1000 | 86. | 84. | 85. | 139. | 150. |
| 2000 | 86. | 85. | 84. | 132. | 147. |
| 4000 | 88. | 84. | 85. | 133. | 146. |
| 8000 | 84. | 83. | 81. | 129. | 143. |
| 16000 | 78. | 81. | 78. | 122. | 132. |

CONFIGURATION 53
FINAL PRECHAMBER WALL FUEL FILM MOD B
POWER SFTTING 10
READING NO. 883

| MICROPHONE POSI | |
|--------------------|-----------|
| 1/3 OCT FREQ 1 2 3 | 4 5 |
| 50 63. | 138. 150. |
| 63 68. 0. | |
| 80 65. 0. | 131. 147. |
| 100 68. 0. | 144. 165. |
| 125 68. 0. | 144. 160. |
| 160 67. 0. | 136. 149. |
| 200 68. 0. | 130. 146. |
| 250 71. 0. | |
| 315 72. 0. | 132. 145. |
| 400 73. 0. | |
| 500 75. 0. | |
| 630 76. 0. | |
| 800 78. 0. | 129. 143. |
| 1000 80. 0. | |
| 1250 79. 0. | |
| 1600 78. 0. | |
| 2000 76. 0. | 129. 142. |
| 2500 76. 0. | |
| 3150 78. 0. | |
| 4000 75. 0. | 132. 148. |
| 5000 76. 0. | |
| 6300 71. 0. | |
| 8000 69. 0. | |
| 10000 68. 0. | |
| 12500 63. 0. | |
| 16000 60. 0. | |
| 20000 53. 0. | 109. 122. |
| OCTAVE FREQ | |
| 63 71. 0. | 140. 153. |
| 125 72. 0. | |
| 250 75. 0. | |
| 500 80. 0. | |
| 1000 84. 0. | |
| 2000 82. 0. | |
| 4000 81. 0. | |
| 8000 74. 0. | |
| 16000 65. 0. | |

CONFIGURATION 53
FINAL PRECHAMBER WALL FUEL FILM MOD B
POWER SETTING 25
READING NO. 884

| | | MICROPHONE | POSITION | | |
|--------------|-----|------------|----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 71. | 64. | 0. | 129. | 142. |
| 63 | 71. | 68. | Ο. | 129. | 139. |
| 80 | 68. | 64. | 0. | 129. | 138. |
| 100 | 68. | 67. | 0. | 140. | 152. |
| 125 | 71. | 71. | 0. | 151. | 159. |
| 160 | 69. | 68. | 0. | 142. | 151. |
| 200 | 70. | 67. | 0. | 129. | 140. |
| 250 | 73. | 72. | 0. | 133. | 150. |
| 315 | 74. | 72. | 0. | 135. | 144. |
| 400 | 74. | 73. | 0. | 138. | 143. |
| 500 | 77. | 75. | 0. | 133. | 142. |
| 630 | 78. | 77. | 0. | 126. | 140. |
| 800 | 79. | 77. | 0. | 126. | 137. |
| 1000 | 80. | 78. | 0. | 122. | 147. |
| 1250 | 83. | 83. | 0. | 122. | 149. |
| 1600 | 79. | 77. | 0. | 125. | 134. |
| 2000 | 77. | 76. | 0. | 123. | 134. |
| 2500 | 77. | 75. | 0. | 120. | 135. |
| 3150 | 79. | 78. | 0. | 124. | 139. |
| 4000 | 77. | 76. | 0. | 118. | 142. |
| 5000 | 78. | 74. | 0. | 122. | 140. |
| 6300 | 73. | 72. | 0. | 121. | 137. |
| 8000 | 70. | 69. | 0. | 114. | 134. |
| 10000 | 67. | 68. | 0. | 107. | 130. |
| 12500 | 62. | 65. | 0. | 108. | 123. |
| 16000 | 58. | 61. | 0. | 108. | 122. |
| 20000 | 53. | 54. | 0. | 108. | 121. |
| | | | | | |
| OCTAVE FREQ | | | F-3 | | |
| 63 | 75. | 71. | 0. | 134. | 145. |
| 125 | 74. | 74. | 0. | 152. | 160. |
| 250 | 77. | 76. | 0. | 138. | 151. |
| 500 | 81. | 80. | 0. | 139. | 147. |
| 1000 | 86. | 85. | 0. | 129. | 151. |
| 2000 | 83. | 81. | 0. | 128. | 139. |
| 4000 | 83. | 81. | 0. | 127. | 145. |
| 8000 | 75. | 75. | 0. | 122. | 139. |
| 16000 | 64. | 67. | 0. | 113. | 127. |

CONFIGURATION 53
FINAL PRECHAMBER WALL FUEL FILM MOD B
POWER SETTING 40
READING NO. 885

| | | MICROPHO | NE POSITION | | |
|--------------|-----|----------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 67. | 64. | 0. | 130. | 139. |
| 63 | 70. | 68. | 0. | 134. | 145. |
| 80 | 66. | 63. | 0. | 132. | 139. |
| 100 | 68. | 66. | 0. | 134. | 147. |
| 125 | 72. | 75. | 0. | 156. | 167. |
| 160 | 72. | 73. | 0. | 155. | 165. |
| 200 | 71. | 69. | 0. | 135. | 144. |
| 250 | 74. | 73. | 0. | 137. | 155. |
| 315 | 76. | 74. | 0. | 141. | 155. |
| 400 | 79. | 79. | 0. | 149. | 150. |
| 500 | 79. | 77. | 0. | 142. | 147. |
| 630 | 82. | 80. | 0. | 135. | 147. |
| 800 | 82. | 79. | 0. | 132. | 141. |
| 1000 | 80. | 79. | 0. | 126. | 145. |
| 1250 | 85. | 85. | 0. | 126. | 149. |
| 1600 | 82. | 80. | 0. | 128. | 137. |
| 2000 | 79. | 78. | 0. | 127. | 135. |
| 2500 | 78. | 77. | 0. | 123. | 137. |
| 3150 | 81. | 80. | 0. | 126. | 140. |
| 4000 | 79. | 77. | 0. | 121. | 139. |
| 5000 | 80. | 76. | 0. | 125. | 138. |
| 6300 | 76. | 74. | 0. | 124. | 137. |
| 8000 | 74. | 73. | 0. | 118. | 136. |
| 10000 | 70. | 70. | 0. | 115. | 131. |
| 12500 | 64. | 66. | 0. | 118. | 132. |
| 16000 | 61. | 63. | 0. | 118. | 131. |
| 20000 | 55. | 56. | 0. | 118. | 130. |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 70. | 0. | 137. | 147. |
| 125 | 76. | 77. | 0. | 159. | 169. |
| 250 | 79. | 77. | 0. | 143. | 158. |
| 500 | 85. | 84. | 0. | 150. | 153. |
| 1000 | 88. | 87. | 0. | 134. | 151. |
| 2000 | 85. | 83. | 0. | 131. | 141. |
| 4000 | 85. | 83. | 0. | 129. | 144. |
| 8000 | 79. | 77. | 0. | 125. | 140. |
| 16000 | 66. | 68. | 0. | 123. | 136. |
| , , , , , | | 000 | • | | 170. |

CONFIGURATION 53
FINAL PRECHAMBER WALL FUEL FILM MOD B
POWER SETTING 55
READING NO. 886

| | | MICROPHO | NE POSITION | ŀ | |
|--------------|-----|----------|-------------|--------------|--------------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 71. | 68. | 0. | 133. | 142. |
| 63 | 80. | 79. | 0. | 137. | 146. |
| 80 | 68. | 65. | 0. | 135. | 141. |
| 100 | 70. | 67. | 0. | 138. | 148. |
| 125 | 81. | 79. | 0. | 158. | 169. |
| 160 | 77. | 77. | 0. | 155. | 166. |
| 200 | 73. | 73. | 0. | 138. | 146. |
| 250 | 78. | 76. | 0. | 143. | 155. |
| 315 | 81. | 78. | 0. | 142. | 153. |
| 400 | 82. | 80. | 0. | 148. | 149. |
| 500 | 81. | 80. | 0. | 143. | 150. |
| 630 | 84. | 82. | 0. | 137. | 149. |
| 800 | 84. | 81. | 0. | 135. | 143. |
| 1000 | 81. | 80. | 0. | 129. | 141. |
| 1250 | 85. | 83. | 0. | 128. | 146. |
| 1600 | 83. | 81. | 0. | 130. | 137. |
| 2000 | 80. | 78. | 0. | 129. | 136. |
| 2500 | 82. | 79. | 0. | 126. | 138. |
| 3150 | 83. | 81. | 0. | 128. | 140. |
| 4000 | 90. | 78. | 0. | 124. | 137. |
| 5000 | 81. | 77. | 0. | 126. | 137. |
| 6300 | 77. | 75. | 0. | 124. | 137. |
| 8000 | 74. | 73. | 0. | 118. | 136. |
| 10000 | 71. | 71. | 0. | 115. | 131. |
| 12500 | 66. | 68. | 0. | 118. | 133. |
| 16000 | 61. | 64. | 0. | 118. | 131. |
| 20000 | 55. | 57. | 0. | 118. | 131. |
| OCTAVE FREQ | | | | | |
| 63 | 81. | 79. | 0. | 140. | 148. |
| 125 | 83. | 81. | 0. | 160. | 171. |
| 250 | 83. | 81. | 0. | 146. | |
| 500 | 87. | 86. | 0. | | 157. |
| 1000 | 88. | 86. | 0. | 149. 137. | 154. |
| 2000 | 87. | 84. | 0. | 133. | 149. |
| 4000 | 86. | 84. | 0. | 131. | 142. 143. |
| 8000 | 79. | 78. | 0. | 125. | |
| 16000 | 67. | 70. | 0. | | 140. |
| 10000 | 010 | # U• | U• | 123. | 137. |

CONFIGURATION 53
FINAL PRECHAMBER WALL FUEL FILM MOD B
POWER SETTING 75
READING NO. 887

| | | MICROPHONE | POSITION | | |
|--------------|-----|------------|-----------|------|------|
| 1/3 OCT FREQ | ì | 2 | 3 | 4 | 5 |
| 50 | 72. | 77. | 0. | 133. | 143. |
| 63 | 81. | 79. | 0. | 136. | 147. |
| 80 | 68. | 74. | 0. | 134. | 142. |
| 100 | 71. | 74. | 0. | 136. | 149. |
| 125 | 80. | 79. | 0. | 156. | 166. |
| 160 | 77. | 79. | 0. | 157. | 168. |
| 200 | 74. | 74. | 0. | 138. | 147. |
| 250 | 77. | 75. | 0. | 141. | 153. |
| 315 | 80. | 78. | 0. | 143. | 155. |
| 400 | 81. | 80. | 0. | 147. | 151. |
| 500 | 82. | 80. | 0. | 144. | 147. |
| 630 | 83. | 82. | 0. | 134. | 150. |
| 800 | 83. | 81. | 0. | 135. | 144. |
| 1000 | 81. | 81. | 0. | 128. | 141. |
| 1250 | 86. | 86. | 0. | 127. | 147. |
| 1600 | 83. | 82. | 0. | 129. | 138. |
| 2000 | 82. | 80. | J. | 129. | 138. |
| 2500 | 83. | 80. | 0. | 125. | 140. |
| 3150 | 84. | 83. | 0. | 126. | 140. |
| 4000 | 82. | 79. | 0. | 123. | 139. |
| 5000 | 82. | 79. | 0. | 127. | 138. |
| 6300 | 79. | 77. | 0. | 125. | 139. |
| 0008 | 77. | 75. | 0. | 119. | 138. |
| 10000 | 73. | 75. | 0. | 115. | 133. |
| 12500 | 69. | 72. | 0. | 118. | 134. |
| 16000 | 66. | 68. | 0. | 118. | 132. |
| 20000 | 62. | 62. | 0. | 118. | 131. |
| | | | | 1104 | 1310 |
| OCTAVE FREQ | | | | | |
| 63 | 82. | 82. | 0. | 139. | 149. |
| 125 | 92. | 83. | 0. | 160. | 170. |
| 250 | 82. | 81. | ō. | 146. | 158. |
| 500 | 87. | 86. | 0. | 149. | 154. |
| 1000 | 89. | 88. | 0. | 136. | 149. |
| 2000 | 87. | 86. | 0. | 133. | 144. |
| 4000 | 88. | 86. | 0. | 130. | 144. |
| 8000 | 82. | 81. | 0. | 126. | 142. |
| 16000 | 71. | 74. | 0. | 123. | 137. |
| | | | | | 131. |

CONFIGURATION 54
FINAL PRECHAMBER PRESSURE ATOMIZER MOD B
POWER SETTING 10
READING NO. 889

| | | MICROPHONE | POSITION | | |
|--------------|------|------------|----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 63. | | 0. | 133. | 142. |
| 63 | 66. | | 0. | 132. | 140. |
| 80 | 66. | | 0. | 132. | 139. |
| 100 | 67. | | 0. | 134. | 144. |
| 125 | 71. | | 0. | 147. | 158. |
| 160 | 75. | | 0. | 152. | 161. |
| 200 | 69. | | 0. | 133. | 142. |
| 250 | 73. | | 0. | 138. | 147. |
| 315 | 76. | | 0. | 146. | 152. |
| 400 | 75. | | 0. | 143. | 142. |
| 500 | 77. | | 0. | 138. | 145. |
| 630 | 79. | | 0. | 132. | 143. |
| 800 | 79. | | 0. | 129. | 136. |
| 1000 | 78. | | 0. | 125. | 136. |
| 1250 | 75. | | 0. | 125. | 134. |
| 1600 | 77. | | 0. | 125. | 134. |
| 2000 | 76. | | 0. | 125. | 135. |
| 2500 | 75. | | 0. | 123. | 132. |
| 3150 | 78. | | 0. | 126. | 134. |
| 4000 | 75. | | 0. | 126. | 138. |
| 5000 | 76. | | 0. | 125. | 137. |
| 6300 | 72. | | 0. | 123. | 133. |
| 8000 | 70. | | 0. | 119. | 132. |
| 10000 | 68. | | 0. | 115. | 127. |
| 12500 | 64. | | 0. | 111. | 123. |
| 1 6000 | 60. | | 0. | 109. | 121. |
| 20000 | 54. | | 0. | 108. | 121. |
| OCTAVE FREQ | | | | | |
| 63 | 70. | | 0. | 137. | 145. |
| 125 | 77. | | 0. | 153. | 163. |
| 250 | 78. | | 0. | 147. | 154. |
| 500 | 82 • | | 0. | 144. | 148. |
| 1000 | 82. | | 0. | 132. | 140. |
| 2000 | 81. | | 0. | 129. | 139. |
| 4000 | 81. | | 0. | 130. | 141. |
| 8000 | 75. | | 0. | 125. | 136. |
| 16000 | 66. | | 0. | 114- | 127. |

CONFIGURATION 54
FINAL PRECHAMBER PRESSURE ATOMIZER MOD B
PGWER SETTING 25
READING NO. 890

| | | MICROPHONE | POSITION | | |
|-------------|-----|------------|----------|------|------|
| 1/3 OCT FRE | Q 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 67. | 0. | 134. | 145. |
| 63 | 69. | 67. | 0. | 133. | 142. |
| 80 | 68. | 66. | 0. | 134. | 139. |
| 100 | 67. | 66. | 0. | 133. | 145. |
| 125 | 70. | 68. | 0. | 142. | 153. |
| 160 | 74. | 75. | 0. | 153. | 164. |
| 200 | 70. | 69. | 0. | 138. | 146. |
| <i>2</i> 50 | 73. | 71. | 0. | 133. | 143. |
| 315 | 78. | 74. | 0. | 146. | 151. |
| 400 | 75. | 74. | 0. | 141. | 142. |
| 500 | 79. | 78. | 0. | 142. | 147. |
| 630 | 79. | 79. | 0. | 131. | 143. |
| 800 | 78. | 77. | 0. | 130. | 138. |
| 1000 | 78. | 76. | 0. | 124. | 138. |
| 1250 | 76. | 75. | 0. | 123. | 137. |
| 1600 | 79. | 77. | 0. | 125. | 136. |
| 2700 | 78. | 77. | 0. | 124. | 137. |
| 2500 | 77. | 76. | 0. | 122. | 136. |
| 3150 | 80. | 79. | 0. | 125. | 136. |
| 4000 | 78. | 77. | 0. | 119. | 139. |
| 5000 | 79. | 76. | 0. | 123. | 137. |
| 6300 | 74. | 73. | 0. | 122. | 136. |
| 8000 | 72. | 70. | 0. | 115. | 133. |
| 10000 | 68. | 69. | 0. | 110. | 131. |
| 12500 | 62. | 65. | 0. | 110. | 125. |
| 16000 | 58. | 61. | 0. | 109. | 122. |
| 20000 | 53. | 55. | 0. | 108. | 121. |
| OCTAVE FREG |) | | | | |
| 63 | 73. | 71. | 0. | 138. | 147. |
| 125 | 76. | 76. | 0. | 153. | 164. |
| 250 | 80. | 77. | 0. | 147. | 153. |
| 500 | 83. | 82. | 0. | 145. | 149. |
| 1000 | 82. | 81. | 0. | 132. | 142. |
| 2000 | 83. | 81. | 0. | 129. | 141. |
| 4000 | 84. | 82. | 0. | 128. | 142. |
| 8000 | 77. | 76. | 0. | 123. | 139. |
| 16000 | 64. | 67. | 0. | 114. | 128. |

CONFIGURATION 54
FINAL PRECHAMBER PRESSURE ATOMIZER MOD B
POWER SETTING 40
READING NO. 891

| | | MICROPHO | NE POSITION | | |
|--------------|-----|----------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 71. | 68. | 0. | 136. | 146. |
| 63 | 70. | 68. | 0. | 135. | 143. |
| 80 | 67. | 65. | 0. | 136. | 142. |
| 100 | 69. | 67. | 0. | 134. | 146. |
| 125 | 70. | 69. | 0. | 138. | 147. |
| 160 | 74. | 74. | 0. | 148. | 159. |
| 200 | 71. | 69. | 0. | 138. | 146. |
| 250 | 73. | 71. | 0. | 129. | 141. |
| 315 | 74. | 73. | 0. | 139. | 144. |
| 400 | 75. | 74. | 0. | 137. | 143. |
| 500 | 79. | 77. | 0. | 135. | 145. |
| 630 | 78. | 78. | 0. | 128. | 143. |
| 800 | 78. | 76. | 0. | 128. | 138. |
| 1000 | 79. | 76. | 0. | 124. | 138. |
| 1250 | 78. | 76. | 0. | 124. | 138. |
| 1600 | 80. | 78. | 0. | 126. | 137. |
| 2000 | 80. | 78. | 0. | 126. | 137. |
| 2500 | 78. | 76. | 0. | 123. | 137. |
| 3150 | 81. | 79. | 0. | 126. | 138. |
| 4000 | 80. | 77. | 0. | 122. | 138. |
| 5000 | 80. | 76. | 0. | 126. | 137. |
| 6300 | 76. | 74. | 0. | 123. | 136. |
| 8000 | 73. | 73. | 0. | 118. | 134. |
| 10000 | 70. | 70. | 0. | 112. | 130. |
| 12500 | 64. | 66. | 0. | 109. | 128. |
| 16000 | 60. | 64. | 0. | 108. | 123. |
| 20000 | 55. | 57. | 0. | 108. | 121. |
| | | | | | |
| OCTAVE FREQ | | | | | |
| 63 | 74. | 72. | 0. | 140. | 149. |
| 125 | 76. | 76. | 0. | 149. | 159. |
| 250 | 78. | 76. | 0. | 142. | 149. |
| 500 | 82. | 81. | 0. | 139. | 149. |
| 1000 | 83. | 81. | 0. | 131. | 143. |
| 2000 | 84. | 82. | 0. | 130. | 142. |
| 4000 | 85. | 82. | 0. | 130. | 142. |
| 8000 | 78. | 77. | 0. | 124. | 139. |
| 16000 | 66. | 68. | 0. | 113. | 130. |

CONFIGURATION 54
FINAL PRECHAMBER PRESSURE ATOMIZER MOD B
POWER SETTING 55
READING NO. 892

| | | MICROPHONE | POSITION | | |
|--------------|-----|------------|----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 75. | | 0. | 138. | 151. |
| 63 | 80. | | 0. | 138. | 148. |
| 90 | 72. | | 0. | 139. | 148. |
| 100 | 74. | | 0. | 137. | 150. |
| 125 | 74. | | 0. | 139. | 147. |
| 160 | 73. | | 0. | 143. | 152. |
| 200 | 74. | | 0. | 140. | 148. |
| 250 | 74. | | 0. | 133. | 144. |
| 315 | 77. | | 0. | 136. | 143. |
| 400 | 78. | | 0. | 144. | 148. |
| 500 | 77. | | 0. | 136. | 145. |
| 630 | 79. | | 0. | 129. | 145. |
| 800 | 78. | | 0. | 129. | 139. |
| 1000 | 78. | | 0. | 126. | 138. |
| 1250 | 89. | | 0. | 125. | 139. |
| 1600 | 81. | | 0. | 127. | 137. |
| 2000 | 80. | | 0. | 127. | 137. |
| 2500 | 85. | | 0. | 124. | 138. |
| 3150 | 79. | | 0. | 126. | 136. |
| 4000 | 78. | | 0. | 123. | 136. |
| 5000 | 78. | | 0. | 128. | 137. |
| 6300 | 77. | | 0- | 123. | 136. |
| 8300 | 76. | | 0. | 121. | 135. |
| 10000 | 72. | | 0. | 113. | 130. |
| 12500 | 70. | | 0. | 110. | 128. |
| 16000 | 67. | | 0. | 109. | 124. |
| 20000 | 62. | | 0. | 108. | 121. |
| OCTAVE FRED | | | | | |
| 63 | 82. | | 0. | 143. | 154. |
| 125 | 78. | | 0. | 145. | 155. |
| 250 | 80. | | 0. | 142. | 150. |
| 500 | 93. | | 0. | 145. | 151. |
| 1000 | 90. | | 0. | 132. | 143. |
| 2000 | 87. | | 0. | 131. | 142. |
| 4000 | 83. | | 0. | 131. | 141. |
| 8000 | 90. | | 0. | 125. | 139. |
| 16000 | 72. | | 0. | 114. | 130. |

CONFIGURATION 54
FINAL PRECHAMBER PRESSURE ATOMIZER MOD B
POWER SFTTING 75
READING NO. 893

| | | MICROPHONE | POSITION | | |
|--------------|-----|------------|----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 74. | 73. | 0. | 142. | 152. |
| 63 | 82. | 80. | 0. | 140. | 151. |
| 80 | 69. | 67. | 0. | 143. | 151. |
| 100 | 72. | 70. | 0. | 141. | 152. |
| 125 | 79. | 73. | 0. | 141. | 151. |
| 160 | 74. | 72. | 0. | 142. | 154. |
| 200 | 75. | 73. | 0. | 140. | 148. |
| 250 | 77. | 75. | 0. | 135. | 147. |
| 315 | 79. | 76. | 0. | 134. | 145. |
| 400 | 80. | 77. | 0. | 140. | 145. |
| 500 | 80. | 79. | 0. | 136. | 144. |
| 630 | 80. | 81. | 0. | 128. | 144. |
| 800 | 80. | 79. | 0. | 129. | 140. |
| 1000 | 80. | 79. | 0. | 126. | 139. |
| 1250 | 80. | 79. | 0. | 124. | 141. |
| 1600 | 82• | 79. | 0. | 128. | 139. |
| 2000 | 82. | 81. | 0. | 128. | 138. |
| 2500 | 82. | 83. | 0. | 123. | 140. |
| 31 50 | 82. | 80. | 0. | 125. | 137. |
| 4000 | 81. | 79. | 0. | 122. | 137. |
| 5000 | 82. | 78. | 0. | 128. | 137. |
| 6300 | 78. | 76. | 0. | 123. | 137. |
| 8000 | 77. | 75. | 0. | 119. | 137. |
| 10000 | 73. | 73. | 0. | 112. | 131. |
| 12500 | 69. | 70. | 0. | 109. | 129. |
| 16000 | 66. | 68. | 0. | 108. | 125. |
| 20000 | 62. | 62. | 0. | 108. | 121. |
| OCTAVE FREQ | | | _ | | |
| 63 | 83. | 81. | 0. | 147. | 156. |
| 125 | 81. | 77. | 0. | 146. | 157. |
| 250 | 82. | 80. | 0. | 142. | 152. |
| 500 | 85. | 84. | 0. | 142. | 149. |
| 1000 | 85. | 84. | 0. | 132. | 145. |
| 2000 | 87. | 86. | 0. | 132. | 144. |
| 4000 | 86. | 84. | 0. | 130. | 142. |
| 8000 | 81. | 80. | 0. | 125. | 141. |
| 16000 | 71. | 73. | 0. | 113. | 131. |

CONFIGURATION 54
FINAL PRECHAMBER PRESSURE ATOMIZER MOD B
POWER SETTING 100
READING NO. 894

| | | MICROPHO | NE POSITION | | |
|--------------|-----|----------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 75. | 72. | 0. | 145. | 155. |
| 63 | 82. | 79. | 0. | 143. | 152. |
| 80 | 69. | 68. | 0. | 144. | 153. |
| 100 | 74. | 74. | 0. | 143. | 155. |
| 125 | 79. | 75. | 0. | 145. | 155. |
| 160 | 75. | 73. | 0. | 147. | 158. |
| 200 | 76. | 74. | 0. | 142. | 150. |
| 250 | 79. | 76. | 0. | 137. | 148. |
| 315 | 79. | 77. | 0. | 136. | 148. |
| 400 | 79. | 77. | 0. | 140. | 147. |
| 500 | 81. | 79. | 0. | 140. | 145. |
| 630 | 81. | 80. | 0. | 130. | 145. |
| 800 | 80. | 79. | 0. | 130. | 142. |
| 1000 | 81. | 80. | 0. | 127. | 140. |
| 1250 | 81. | 79. | 0. | 125. | 142. |
| 1600 | 82. | 80. | 0. | 128. | 140. |
| 2000 | 82. | 80. | 0. | 129. | 140. |
| 2500 | 80. | 80. | 0. | 124. | 142. |
| 3150 | 83. | 81. | 0. | 125. | 140. |
| 4000 | 82. | 80. | 0. | 124. | 139. |
| 5000 | 81. | 80. | 0. | 125. | 139. |
| 6300 | 78. | 77. | 0. | 123. | 139. |
| 8000 | 77. | 77. | 0. | 119. | 139. |
| 10000 | 77. | 78. | 0. | 115. | 134. |
| 12500 | 71. | 74. | 0. | 118. | 130. |
| 16000 | 68. | 71. | 0. | 118. | 125. |
| 20000 | 64. | 65. | 0. | 118. | 121. |
| OCTAVE FREQ | | | | | |
| 63 | 83. | 80. | 0. | 149. | 158. |
| 125 | 81. | 79. | 0. | 150. | 161. |
| 250 | 83. | 81. | 0. | 144. | 154. |
| 500 | 85. | 84. | 0. | 143. | 151. |
| 1000 | 85. | 84. | 0. | 133. | 146. |
| 2000 | 86. | 85. | 0. | 132. | 146. |
| 4000 | 87. | 85. | 0. | 129. | 144. |
| 8000 | 82. | 82. | 0. | 125. | 143. |
| 16000 | 73. | 76. | 0. | 123. | 132. |

CONFIGURATION 55
FINAL PRECHAMBER WALL FILM MOD C
POWER SETTING 10
READING NO. 934

| | | MICROPHONE | POSITION | | |
|--------------|-----|------------|----------|------|------|
| 1/3 UCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 71. | 73. | 0. | 128. | 140. |
| 63 | 70. | 71. | 0. | 130. | 139. |
| 80 | 69. | 66. | 0. | 130. | 139. |
| 100 | 68. | 69. | 0. | 143. | 159. |
| 125 | 72. | 72. | 0. | 144. | 154. |
| 160 | 74. | 71. | 0. | 133. | 141. |
| 200 | 71. | 69. | 0. | 128. | 141. |
| 250 | 74. | 71. | 0. | 131. | 144. |
| 315 | 75. | 73. | 0. | 133. | 140. |
| 400 | 74. | 73. | 0. | 133. | 137. |
| 500 | 79. | 76. | 0. | 125. | 138. |
| 630 | 76. | 74. | 0. | 124. | 135. |
| 800 | 76. | 75. | 0. | 124. | 134. |
| 1000 | 76. | 76. | 0. | 122. | 134. |
| 1250 | 76. | 74. | 0. | 122. | 133. |
| 1600 | 78. | 76. | 0. | 123. | 133. |
| 2000 | 77. | 75. | 0. | 122. | 136. |
| 2500 | 76. | 74. | 0. | 119. | 133. |
| 3150 | 79. | 76. | 0. | 125. | 134. |
| 4000 | 78. | 75. | 0. | 117. | 141- |
| 5000 | 78. | 74. | 0. | 121. | 139. |
| 6300 | 73. | 71. | 0. | 120. | 134. |
| 8000 | 70. | 69. | 0. | 112. | 133. |
| 10000 | 67. | 67. | 0. | 106. | 129. |
| 12500 | 61. | 63. | 0. | 108. | 124. |
| 16000 | 57. | 60. | 0. | 107. | 121. |
| 20000 | 53. | 54. | 0. | 107. | 121. |
| OCTAVE FREQ | | | | | |
| 63 | 75. | 76. | 0. | 134. | 144. |
| 125 | 77. | 76. | 0. | 147. | 160. |
| 250 | 78. | 76. | 0. | 136. | 147. |
| 500 | 82. | 79. | 0. | 134. | 142. |
| 1000 | 81. | 80. | 0. | 128. | 138. |
| 2000 | 82. | 80. | 0. | 126. | 139. |
| 4000 | 83. | 80. | 0. | 127. | 144. |
| 8000 | 75. | 74. | 0. | 121. | 137. |
| 16000 | 63. | 45. | 0. | 112. | 127. |

CONFIGURATION 55
FINAL PRECHAMBER WALL FILM MOD C
POWER SETTING 25
READING NO. 935

| 1/3 OCT FREQ 50 71. 66. 0. 130. 140. 63 72. 69. 0. 134. 146. 80 69. 65. 0. 132. 139. 100 69. 65. 0. 135. 146. 125 75. 75. 75. 0. 156. 167. 160 75. 73. 0. 154. 164. 200 72. 70. 0. 135. 144. 250 78. 77. 0. 142. 157. 315 77. 76. 0. 143. 154. 400 79. 77. 0. 142. 157. 500 80. 78. 0. 151. 147. 500 80. 78. 0. 142. 151. 630 81. 79. 0. 138. 149. 800 81. 79. 0. 138. 149. 800 81. 79. 0. 138. 149. 1000 79. 77. C. 126. 137. 1600 82. 80. 0. 128. 136. 2000 79. 78. 77. 0. 126. 138. 2500 79. 77. 0. 126. 138. 2500 79. 77. 0. 126. 138. 2500 79. 77. 0. 126. 138. 2500 79. 78. 0. 126. 138. 2500 79. 78. 0. 126. 138. 2500 79. 78. 0. 126. 138. 2500 79. 77. 0. 126. 138. 2500 79. 78. 0. 126. 138. 2500 79. 78. 0. 126. 138. 2500 79. 78. 77. 0. 126. 138. 2500 79. 78. 77. 0. 126. 138. 2500 79. 78. 77. 0. 126. 138. 2500 79. 78. 77. 0. 126. 138. 2500 79. 75. 0. 125. 140. 6300 75. 73. 0. 124. 142. 5000 79. 75. 0. 125. 140. 6300 75. 73. 0. 124. 135. 10000 70. 70. 0. 118. 131. 2500 64. 66. 0. 118. 131. 2500 65. 62. 0. 118. 131. 2500 65. 62. 0. 118. 131. 2500 85. 83. 0. 136. 143. 2000 85. 83. 0. 136. 143. 2000 85. 83. 0. 136. 143. 2000 85. 83. 0. 131. 142. 4000 85. 83. 0. 130. 145. 8000 78. 76. 0. 126. 141. | | | MICROPHO | NF POSITION | | |
|--|--------------|-----|----------|-------------|------|------|
| 50 71. 66. 0. 130. 140. 63 72. 69. 0. 134. 146. 80 69. 65. 0. 132. 139. 100 69. 65. 0. 135. 146. 125 75. 75. 75. 0. 156. 167. 160 75. 73. 0. 154. 164. 200 72. 70. 0. 135. 144. 250 78. 77. 70. 0. 142. 157. 315 77. 76. 0. 142. 157. 500 80. 78. 0. 142. 151. 630 81. 79. 0. 138. 149. 800 81. 79. 0. 138. 149. 800 81. 78. 0. 126. 138. 1250 79. 77. 7. 0. 126. 138. 1250 79. 77. 0. 126. 138. 1250 79. 77. 0. 126. 138. 2000 79. 78. 77. 0. 126. 138. 2500 78. 77. 0. 126. 138. 2500 78. 77. 0. 126. 138. 2500 79. 79. 70. 0. 126. 138. 2500 79. 79. 70. 0. 126. 138. 2500 79. 79. 70. 0. 126. 138. 2500 79. 79. 70. 0. 126. 138. 2500 79. 79. 70. 0. 126. 138. 2500 79. 79. 70. 0. 126. 138. 2500 79. 79. 70. 0. 126. 138. 2500 79. 79. 70. 0. 126. 138. 2500 79. 75. 0. 125. 140. 6300 75. 73. 0. 124. 137. 3150 82. 80. 0. 127. 139. 4000 80. 77. 0. 124. 132. 5000 79. 75. 0. 125. 140. 6300 75. 73. 0. 124. 138. 8000 72. 71. 0. 119. 135. 10000 70. 70. 0. 116. 133. 12500 64. 66. 0. 118. 131. 16000 60. 62. 0. 118. 131. 16000 60. 62. 0. 118. 131. 16000 60. 62. 0. 118. 131. 1000 85. 83. 0. 130. 145. 8000 78. 78. 0. 126. 141. | 1/3 OCT FREQ | 1 | | | 4 | 5 |
| 63 72. 69. 0. 134. 146. 80 69. 65. 0. 132. 139. 100 69. 65. 0. 135. 146. 125 75. 75. 75. 0. 156. 167. 160 75. 73. 0. 154. 164. 200 72. 70. 0. 135. 144. 250 78. 77. 0. 142. 157. 315 77. 76. 0. 142. 157. 500 80. 78. 0. 142. 151. 630 81. 79. 0. 138. 149. 800 81. 79. 0. 138. 149. 800 81. 78. 0. 135. 139. 1000 79. 79. 0. 126. 138. 1250 79. 77. 0. 126. 138. 2500 78. 77. 0. 126. 138. 2500 78. 77. 0. 126. 138. 2500 79. 78. 0. 126. 138. 2500 79. 78. 0. 126. 138. 2500 79. 78. 0. 126. 138. 2500 79. 78. 0. 124. 137. 3150 82. 80. 0. 127. 139. 4000 80. 77. 0. 124. 137. 3150 82. 80. 0. 127. 139. 4000 80. 77. 0. 124. 137. 3150 82. 80. 0. 127. 139. 4000 79. 75. 0. 125. 140. 6300 75. 73. 0. 124. 138. 1250 79. 77. 0. 126. 138. 8000 72. 71. 0. 119. 135. 10000 70. 70. 0. 118. 131. 12500 64. 66. 0. 118. 131. 1250 64. 66. 0. 118. 131. OCTAVE FREQ 63 76. 72. 0. 137. 148. 125 79. 77. 0. 158. 169. 2500 85. 83. 0. 136. 143. 2000 85. 83. 0. 136. 143. 2000 85. 83. 0. 136. 143. 2000 85. 83. 0. 130. 145. 8000 78. 76. 0. 126. 141. | | | | | | 140. |
| 80 69. 65. 0. 132. 139. 100 69. 65. 0. 135. 146. 125 75. 75. 75. 0. 156. 167. 160 75. 73. 0. 154. 164. 200 72. 70. 0. 135. 144. 250 78. 77. 0. 142. 157. 315 77. 76. 0. 142. 157. 315 77. 76. 0. 142. 157. 500 80. 78. 0. 151. 147. 500 80. 78. 0. 142. 151. 630 81. 79. 0. 138. 149. 800 81. 78. 0. 135. 139. 1000 79. 77. 7. 0. 151. 135. 139. 1000 79. 79. 79. 0. 126. 138. 1250 79. 77. C. 126. 137. 1600 82. 80. 0. 128. 136. 2000 79. 78. 77. 0. 126. 138. 2500 78. 77. 0. 126. 138. 2500 78. 77. 0. 126. 138. 2500 79. 77. 0. 126. 138. 2500 79. 77. 0. 126. 138. 2500 79. 78. 0. 126. 138. 2500 79. 79. 78. 0. 126. 138. 2500 79. 77. 0. 124. 137. 3150 82. 80. 0. 127. 139. 4000 80. 77. 0. 124. 142. 5000 79. 75. 0. 125. 140. 6300 75. 73. 0. 124. 138. 8000 72. 71. 0. 119. 135. 10000 70. 70. 0. 118. 131. 12500 64. 66. 0. 118. 131. 20000 55. 56. 0. 118. 131. | | | | | | |
| 125 | 80 | | 65. | 0. | | 139. |
| 160 75. 73. 0. 154. 164. 200 72. 70. 0. 135. 144. 250 78. 77. 0. 142. 157. 315 77. 76. 0. 142. 157. 315 77. 76. 0. 142. 154. 400 79. 77. 0. 151. 147. 500 80. 78. 0. 142. 151. 630 81. 79. 0. 138. 149. 800 81. 78. 0. 135. 139. 1000 79. 79. 0. 126. 138. 1250 79. 77. C. 126. 137. 1600 82. 80. 0. 128. 136. 2000 79. 78. 0. 126. 138. 2500 78. 77. 0. 126. 138. 2500 78. 77. 0. 124. 137. 3150 82. 80. 0. 127. 139. 4000 80. 77. 0. 124. 137. 3150 82. 80. 0. 124. 137. 6300 75. 73. 0. 124. 142. 5000 79. 75. 0. 125. 140. 6300 75. 73. 0. 124. 138. 8000 72. 71. 0. 119. 135. 10000 70. 70. 0. 116. 133. 12500 64. 66. 0. 118. 131. 16000 60. 62. 0. 118. 131. 16000 60. 62. 0. 118. 131. OCTAVE FREQ 63 76. 72. 0. 158. 169. 250 85. 83. 0. 136. 143. 2000 85. 83. 0. 136. 143. 2000 85. 83. 0. 131. 142. 4000 85. 83. 0. 130. 145. | 100 | | 65. | 0. | | 146. |
| 200 | 125 | 75. | 75. | 0. | 156. | 167. |
| 250 | 160 | 75. | 73. | 0. | 154. | 164. |
| 315 | 200 | 72. | 70. | 0. | 135. | 144. |
| 400 79. 77. 0. 151. 147. 500 80. 78. 0. 142. 151. 630 81. 79. 0. 138. 149. 800 81. 78. 0. 135. 139. 1000 79. 79. 0. 126. 138. 1250 79. 77. 0. 126. 137. 1600 82. 80. 0. 128. 136. 2000 79. 78. 0. 126. 138. 2500 78. 77. 0. 124. 137. 3150 82. 80. 0. 127. 139. 4000 80. 77. 0. 124. 142. 5000 79. 75. 0. 125. 140. 6300 75. 73. 0. 124. 138. 10000 70. 70. 0. 116. 133. 12500 64. 66. 0. 118. 131. | 250 | 78. | 77. | 0. | 142. | 157. |
| 500 80. 78. 0. 142. 151. 630 81. 79. 0. 138. 149. 800 81. 78. 0. 135. 139. 1000 79. 79. 0. 126. 138. 1250 79. 77. 0. 126. 137. 1600 82. 80. 0. 128. 136. 2000 79. 78. 0. 126. 138. 2500 78. 77. 0. 124. 137. 3150 82. 80. 0. 127. 139. 4000 80. 77. 0. 124. 142. 5000 79. 75. 0. 125. 140. 6300 75. 73. 0. 124. 138. 8000 72. 71. 0. 119. 135. 1000 70. 70. 0. 116. 133. 12500 64. 66. 0. 118. 131. | 315 | 77. | 76. | 0. | 143. | 154. |
| 630 81. 79. 0. 138. 149. 800 81. 78. 0. 135. 139. 1000 79. 79. 0. 126. 138. 1250 79. 77. C. 126. 137. 1600 82. 80. 0. 128. 136. 2000 79. 78. 0. 126. 138. 2500 78. 77. 0. 124. 137. 3150 82. 80. 0. 127. 139. 4000 80. 77. 0. 124. 142. 5000 79. 75. 0. 125. 140. 6300 75. 73. 0. 124. 138. 8000 72. 71. 0. 119. 135. 10000 70. 70. 0. 116. 133. 12500 64. 66. 0. 118. 131. 16000 60. 62. 0. 118. 131. 20000 55. 56. 0. 137. 148. 125 79. 77. 0. 158. 169. 250 81. 80. 0. 152. 154. 1000 85. 83. 0. 136. 143. 2000 85. 83. 0. 136. 143. 2000 85. 83. 0. 130. 145. 8000 78. 76. 0. 126. 141. | | 79. | | 0. | 151. | 147. |
| 800 81. 78. 0. 135. 139. 1000 79. 79. 79. 0. 126. 138. 1250 79. 77. C. 126. 137. 1600 82. 80. 0. 128. 136. 2000 79. 78. 0. 126. 138. 2500 78. 77. 0. 124. 137. 3150 82. 80. 0. 127. 139. 4000 80. 77. 0. 124. 142. 5000 79. 75. 0. 125. 140. 6300 75. 73. 0. 124. 138. 8000 72. 71. 0. 119. 135. 10000 70. 70. 0. 119. 135. 10000 70. 70. 0. 118. 131. 16000 60. 62. 0. 118. 131. 20000 55. 56. 0. 118. 131. OCTAVE FP.EQ 63 76. 72. 0. 137. 148. 125 79. 77. 0. 158. 169. 250 81. 80. 0. 146. 159. 500 85. 83. 0. 136. 143. 2000 85. 83. 0. 131. 142. 4000 85. 83. 0. 131. 142. 4000 85. 83. 0. 131. 142. | 500 | 80. | 78. | 0. | 142. | 151. |
| 1000 | | | | 0. | 138. | 149. |
| 1250 | | | | 0. | 135. | 139. |
| 1600 82. 80. 0. 128. 136. 2000 79. 78. 0. 126. 138. 2500 78. 77. 0. 124. 137. 3150 82. 80. 0. 127. 139. 4000 80. 77. 0. 124. 142. 5000 79. 75. 0. 125. 140. 6300 75. 73. 0. 124. 138. 8000 72. 71. 0. 119. 135. 10000 70. 70. 0. 116. 133. 12500 64. 66. 0. 118. 131. 16000 60. 62. 0. 118. 131. 20000 55. 56. 0. 137. 148. 125 79. 77. 0. 158. 169. 250 81. 80. 0. 146. 159. 500 85. 83. 0. 136. 143. | | | | 0. | | |
| 2000 | | | | | | |
| 2500 | | | | 0. | | |
| 3150 82. 80. 0. 127. 139. 4000 80. 77. 0. 124. 142. 5000 79. 75. 0. 125. 140. 6300 75. 73. 0. 124. 138. 8000 72. 71. 0. 119. 135. 10000 70. 70. 0. 116. 133. 12500 64. 66. 0. 118. 131. 16000 60. 62. 0. 118. 131. 20000 55. 56. 0. 118. 131. OCTAVE FREQ 63 76. 72. 0. 137. 148. 125 79. 77. 0. 158. 169. 250 81. 80. 0. 146. 159. 500 85. 83. 0. 152. 154. 1000 85. 83. 0. 136. 143. 2000 85. 83. 0. 131. 142. 4000 85. 83. 0. 130. 145. 8000 78. 76. 0. 126. 141. | | | | | 126. | |
| 4000 80. 77. 0. 124. 142. 5000 79. 75. 0. 125. 140. 6300 75. 73. 0. 124. 138. 8000 72. 71. 0. 119. 135. 10000 70. 70. 0. 116. 133. 12500 64. 66. 0. 118. 131. 16000 60. 62. 0. 118. 131. 20000 55. 56. 0. 118. 131. 131. 131. 125 79. 77. 0. 158. 169. 250 81. 80. 0. 146. 159. 500 85. 83. 0. 152. 154. 1000 85. 83. 0. 136. 143. 2000 85. 83. 0. 136. 143. 2000 85. 83. 0. 131. 142. 4000 85. 83. 0. 130. 145. 8000 78. 76. 0. 126. 141. | 2500 | | 77. | 0. | 124. | 137. |
| 5000 79. 75. 0. 125. 140. 6300 75. 73. 0. 124. 138. 8000 72. 71. 0. 119. 135. 10000 70. 70. 0. 116. 133. 12500 64. 66. 0. 118. 131. 16000 60. 62. 0. 118. 131. 20000 55. 56. 0. 118. 131. 0CTAVE FREQ 76. 72. 0. 137. 148. 125 79. 77. 0. 158. 169. 250 81. 80. 0. 146. 159. 500 85. 83. 0. 136. 143. 2000 85. 83. 0. 131. 142. 4000 85. 83. 0. 130. 145. 8000 78. 76. 0. 126. 141. | 3150 | | | 0. | 127. | 139. |
| 6300 75. 73. 0. 124. 138. 8000 72. 71. 0. 119. 135. 10000 70. 70. 0. 116. 133. 12500 64. 66. 0. 118. 131. 16000 60. 62. 0. 118. 131. 20000 55. 56. 0. 118. 131. OCTAVE FREQ 63 76. 72. 0. 137. 148. 125 79. 77. 0. 158. 169. 250 81. 80. 0. 158. 169. 500 85. 83. 0. 152. 154. 1000 85. 83. 0. 136. 143. 2000 85. 83. 0. 131. 142. 4000 85. 83. 0. 130. 145. 8000 78. 76. 0. 126. 141. | | | | 0. | 124. | 142. |
| 8000 72. 71. 0. 119. 135. 10000 70. 70. 0. 116. 133. 12500 64. 66. 0. 118. 131. 16000 60. 62. 0. 118. 131. 20000 55. 56. 0. 118. 131. OCTAVE FREQ 63 76. 72. 0. 137. 148. 125 79. 77. 0. 158. 169. 250 81. 80. 0. 146. 159. 500 85. 83. 0. 152. 154. 1000 85. 83. 0. 136. 143. 2000 85. 83. 0. 131. 142. 4000 85. 83. 0. 130. 145. 8000 78. 76. 0. 126. 141. | | | | | | 140. |
| 10000 70. 70. 0. 116. 133. 12500 64. 66. 0. 118. 131. 16000 60. 62. 0. 118. 131. 20000 55. 56. 0. 118. 131. OCTAVE FREQ 63 76. 72. 0. 137. 148. 125 79. 77. 0. 158. 169. 250 81. 80. 0. 146. 159. 500 85. 83. 0. 152. 154. 1000 85. 83. 0. 136. 143. 2000 85. 83. 0. 131. 142. 4000 85. 83. 0. 130. 145. 8000 78. 76. 0. 126. 141. | | | | 0. | | |
| 12500 64. 66. 0. 118. 131. 16000 60. 62. 0. 118. 131. 20000 55. 56. 0. 118. 131. 131. OCTAVE FREQ 63 76. 72. 0. 137. 148. 125 79. 77. 0. 158. 169. 250 81. 80. 0. 146. 159. 500 85. 83. 0. 152. 154. 1000 85. 83. 0. 136. 143. 2000 85. 83. 0. 136. 143. 2000 85. 83. 0. 136. 143. 2000 85. 83. 0. 130. 145. 8000 78. 76. 0. 126. 141. | | | | | | |
| 16000 60. 62. 0. 118. 131. 20000 55. 56. 0. 118. 131. OCTAVE FREQ 63 76. 72. 0. 137. 148. 125 79. 77. 0. 158. 169. 250 81. 80. 0. 146. 159. 500 85. 83. 0. 152. 154. 1000 85. 83. 0. 136. 143. 2000 85. 83. 0. 131. 142. 4000 85. 83. 0. 130. 145. 8000 78. 76. 0. 126. 141. | | | | | | |
| 20000 55. 56. 0. 118. 131. OCTAVE FREQ 63 76. 72. 0. 137. 148. 125 79. 77. 0. 158. 169. 250 81. 80. 0. 146. 159. 500 85. 83. 0. 152. 154. 1000 85. 83. 0. 136. 143. 2000 85. 83. 0. 131. 142. 4000 85. 83. 0. 130. 145. 8000 78. 76. 0. 126. 141. | | | | | | |
| OCTAVE FREQ 63 76. 72. 0. 137. 148. 125 79. 77. 0. 158. 169. 250 81. 80. 0. 146. 159. 500 85. 83. 0. 152. 154. 1000 85. 83. 0. 136. 143. 2000 85. 83. 0. 131. 142. 4000 85. 83. 0. 130. 145. 8000 78. 76. 0. 126. 141. | | | | | | |
| 63 76. 72. 0. 137. 148. 125 79. 77. 0. 158. 169. 250 81. 80. 0. 146. 159. 500 85. 83. 0. 152. 154. 1000 85. 83. 0. 136. 143. 2000 85. 83. 0. 131. 142. 4000 85. 83. 0. 130. 145. 8000 78. 76. 0. 126. 141. | 20000 | 55. | 56. | 0. | 118. | 131. |
| 63 76. 72. 0. 137. 148. 125 79. 77. 0. 158. 169. 250 81. 80. 0. 146. 159. 500 85. 83. 0. 152. 154. 1000 85. 83. 0. 136. 143. 2000 85. 83. 0. 131. 142. 4000 85. 83. 0. 130. 145. 8000 78. 76. 0. 126. 141. | OCTAVE EPEO | | | | | |
| 125 79. 77. 0. 158. 169. 250 81. 80. 0. 146. 159. 500 85. 83. 0. 152. 154. 1000 85. 83. 0. 136. 143. 2000 85. 83. 0. 131. 142. 4000 85. 83. 0. 130. 145. 8000 78. 76. 0. 126. 141. | - | 76. | 72. | 0. | 137. | 148- |
| 250 81. 80. 0. 146. 159. 500 85. 83. 0. 152. 154. 1000 85. 83. 0. 136. 143. 2000 85. 83. 0. 131. 142. 4000 85. 83. 0. 130. 145. 8000 78. 76. 0. 126. 141. | | | | | | |
| 500 85. 83. 0. 152. 154. 1000 85. 83. 0. 136. 143. 2000 85. 83. 0. 131. 142. 4000 85. 83. 0. 130. 145. 8000 78. 76. 0. 126. 141. | | | | | | |
| 1000 85. 83. 0. 136. 143. 2000 85. 83. 0. 131. 142. 4000 85. 83. 0. 130. 145. 8000 78. 76. 0. 126. 141. | | | | | | |
| 2000 85. 83. 0. 131. 142. 4000 85. 83. 0. 130. 145. 8000 78. 76. 0. 126. 141. | | | | | | |
| 4000 85. 83. 0. 130. 145. 8000 78. 76. 0. 126. 141. | | | | | | |
| 8000 78. 76. 0. 126. 141. | | | | | | |
| | | | | | | |
| | 16000 | 66. | 68. | 0. | 123. | 136. |

CONFIGURATION 55
FINAL PRECHAMBER WALL FILM MOD C
POWER SETTING 40
READING NO. 936

| | | MICROPHONE | POSITION | | |
|------------|-------|------------|----------|------|------|
| 1/3 OCT FF | REQ 1 | 2 | 3 | 4 | 5 |
| 50 | 73. | 68. | 0. | 138. | 142. |
| 63 | 73. | 70. | 0. | 139. | 146. |
| 80 | 70. | 65. | 0. | 141. | 141. |
| 100 | 71. | 67. | 0. | 144. | 147. |
| 125 | 73. | 73. | 0. | 164. | 166. |
| 160 | 76. | 78. | 0. | 170. | 171. |
| 200 | 72. | 70. | 0. | 147. | 148. |
| 250 | 76. | 73. | 0. | 149. | 154. |
| 315 | 79. | 75. | 0. | 156. | 161. |
| 400 | 79. | 77. | 0. | 162. | 146. |
| 500 | 81. | 79. | 0. | 156. | 151. |
| 630 | 84. | 83. | 0. | 152. | 155. |
| 800 | 83. | 81. | 0. | 151. | 144. |
| 1000 | 82. | 82. | 0. | 140. | 140. |
| 1250 | 83. | 81. | 0. | 137. | 141. |
| 1600 | 84. | 81. | 0. | 138. | 138. |
| 2000 | 82. | 80. | 0. | 136. | 140. |
| 2500 | 80. | 78. | 0. | 133. | 140- |
| 3150 | 82. | 81. | 0. | 135. | 140. |
| 4000 | 81. | 78. | 0. | 130. | 139. |
| 5000 | 81. | 77. | 0. | 133. | 138. |
| 6300 | 78. | 75. | 0. | 133. | 137. |
| 8000 | 74. | 73. | 0. | 126. | 135. |
| 10000 | 72. | 71. | 0. | 120. | 132. |
| 12500 | 66. | 67. | 0. | 119. | 133. |
| 16000 | 61. | 64. | 0. | 118. | 131. |
| 20000 | 56. | 59. | 0. | 118. | 131. |
| OCTAVE FR | REQ | | | | |
| 63 | 77. | 73. | 0. | 144. | 148. |
| 125 | 79. | 79. | 0. | 171. | 172. |
| 250 | 81. | 78. | 0. | 157. | 162. |
| 500 | 87. | 85. | 0. | 163. | 157. |
| 1000 | 87. | 86. | 0. | 151. | 147. |
| 2000 | 87. | 85. | 0. | 141. | 144. |
| 4000 | 86. | 84. | 0. | 138. | 144. |
| 8000 | 80. | 78. | 0. | 134. | 140- |
| 16000 | 68. | 69. | 0. | 123. | 137. |

CONFIGURATION 55
FINAL PRECHAMBER WALL FILM MOD C
POWER SETTING 55
READING NO. 937

| | | MICHOPHONE | POSITION | | |
|--------------|------------|------------|----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 75. | 70. | 0. | 133. | 143. |
| 63 | 81. | 79. | 0. | 135. | 146. |
| 80 | 71. | 66. | 0. | 134. | 141. |
| 100 | 72. | 69. | 0. | 134. | 147. |
| 125 | 76. | 74. | 0. | 153. | 164. |
| 160 | 81. | 79. | 0. | 160. | 171. |
| 200 | 76. | 72. | 0. | 139. | 148. |
| 250 | 78. | 75. | 0. | 138. | 152. |
| 315 | 83. | 79. | 0. | 148. | 160. |
| 400 | 80. | 79. | 0. | 150. | 147. |
| 500 | 83. | 80. | 0. | 149. | 150. |
| 630 | 86. | 84. | 0. | 142. | 155. |
| 800 | 84. | 81. | 0. | 142. | 144. |
| 1000 | 83. | 82. | 0. | 132. | 140. |
| 1250 | 83. | 81. | 0. | 129. | 141. |
| 1600 | 85. | 82. | 0. | 131. | 139. |
| 2000 | 93. | 81. | 0. | 129. | 140. |
| 2500 | 34. | 80. | 0. | 125. | 140. |
| 3150 | яз. | 92. | 0. | 127. | 138. |
| 4000 | 81. | 79. | 0. | 123. | 139. |
| 5000 | 81. | 78. | 0. | 126. | 139. |
| 6300 | 79. | 76. | 0. | 125. | 138. |
| 8000 | 76. | 74. | 0. | 119. | 136. |
| 10000 | 74. | 73. | 0. | 115. | 133. |
| 12500 | 68. | 69. | 0. | 118. | 133. |
| 16000 | 65. | 66. | 0. | 118. | 131. |
| 20000 | 62. | 60. | 0. | 118. | 131. |
| OCTAVE EDEO | | | | | |
| OCTAVE FREO | 82. | 0.0 | 0 | 120 | 140 |
| 63 | | 80. | 0. | 139. | 149. |
| 125 250 | 83. | 81. | 0. | 161. | 172. |
| 500 | 85. 88. | 81. | 0. | 149. | 161. |
| 1000 | | 86. | 0. | 153. | 157. |
| 2000 | 88. 89. | 86. | 0. | 143. | 147. |
| 4000 | 87. | 86. | 0. | 134. | 144. |
| 8000 | 92. | 85. | 0. | 130. | 143. |
| | | 79. | 0. | 126. | 141. |
| 16000 | 70. | 71. | 0. | 123. | 137. |

CCNFIGURATION 55
FINAL PRECHAMBER WALL FILM MOD C
POWER SETTING 75
READING NO. 938

| | | MICROPHONE | POSITION | | |
|--------------|-----|------------|----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 74. | 71. | 0. | 134. | 144. |
| 63 | 80. | 80. | 0. | 135. | 147. |
| 80 | 71. | 68. | 0. | 134. | 143. |
| 100 | 72. | 70. | 0. | 134. | 146. |
| 125 | 76. | 74. | 0. | 150. | 161. |
| 160 | 80. | 79. | 0. | 157. | 168. |
| 200 | 76. | 73. | 0. | 138. | 147. |
| 250 | 78. | 76. | 0. | 135. | 149. |
| 315 | 81. | 78. | 0. | 142. | 155. |
| 400 | 80. | 78. | 0. | 146. | 146. |
| 500 | 82. | 80. | 0. | 145. | 148. |
| 630 | 84. | 82. | 0. | 137. | 152. |
| 800 | 83. | 80. | 0. | 137. | 143. |
| 1000 | 81. | 81. | 0. | 129. | 139. |
| 1250 | 83. | 81. | 0. | 128. | 141. |
| 1600 | 85. | 82. | 0. | 130. | 139. |
| 2000 | 83. | 81. | 0. | 130. | 139. |
| 2500 | 83. | 81. | 0. | 125. | 140. |
| 3150 | 83. | 82. | 0. | 127. | 139. |
| 4000 | 82. | 79. | 0. | 123. | 139. |
| 5000 | 82. | 80. | 0. | 128. | 139. |
| 6300 | 80. | 78. | 0. | 125. | 138. |
| 8000 | 80. | 79. | 0. | 120. | 137. |
| 10000 | 76. | 76. | 0. | 115. | 133. |
| 12500 | 71. | 72. | 0. | 118. | 134. |
| 16000 | 68. | 69. | 0. | 117. | 132. |
| 20000 | 64. | 64. | 0. | 117. | 131. |
| OCTAVE FREQ | | | | | |
| 63 | 81. | 81. | 0. | 139. | 150. |
| 125 | 82. | 81. | 0. | 158. | 169. |
| 250 | 84. | 81. | 0. | 144. | 156. |
| 500 | 87. | 85. | 0. | 149. | 154. |
| 1000 | 87. | 85. | 0. | 138. | 146. |
| 2000 | 89. | 86. | 0. | 134. | 144. |
| 4000 | 87. | 85. | 0. | 131. | 144. |
| 8000 | 84. | 83. | 0. | 127. | 141. |
| 16000 | 73. | 74. | 0. | 122. | 137. |

CONFIGURATION 56
FINAL MODIFIED CONVENTIONAL MOD B 0/0 OPEN DZ = 50
POWER SETTING 10
READING NO. 947

| | | MICROPHONE | POSITION | | |
|--------------|-----|------------|----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 72. | 68. | 0. | 126. | 138. |
| 63 | 72. | 68. | 0. | 132. | 139. |
| 80 | 70. | 68. | 0. | 130. | 139. |
| 100 | 71. | 66. | 0. | 130. | 143. |
| 125 | 71. | 67. | 0. | 130. | 139. |
| 160 | 72. | 68. | 0. | 132. | 141. |
| 200 | 71. | 70. | 0. | 131. | 142. |
| 250 | 73. | 72. | 0. | 129. | 144. |
| 315 | 76. | 75. | 0. | 136. | 144. |
| 400 | 75. | 73. | 0. | 132. | 139. |
| 500 | 78. | 76. | 0. | 133. | 141. |
| 630 | 76. | 76. | 0. | 133. | 141. |
| 800 | 77. | 77. | 0. | 126. | 139. |
| 1000 | 76. | 75. | 0. | 121. | 139. |
| 1250 | 76. | 74. | 0. | 120. | 138. |
| 1600 | 76. | 74. | 0. | 122. | 137. |
| 2000 | 75. | 73. | 0. | 118. | 135. |
| 2500 | 75. | 74. | 0. | 118. | 133. |
| 3150 | 77. | 75. | 0. | 126. | 137. |
| 4000 | 76. | 75. | 0. | 118. | 142. |
| 5000 | 74. | 72. | 0. | 121. | 137. |
| 6300 | 72. | 70. | 0. | 121. | 133. |
| 8000 | 70. | 69. | 0. | 112. | 128. |
| 10000 | 67. | 66. | 0. | 105. | 128. |
| 12500 | 62. | 63. | 0. | 102. | 122. |
| 16000 | 58. | 61. | 0. | 100. | 114. |
| 20000 | 53. | 54. | 0. | 99. | 111. |
| | | | | | |
| OCTAVE FRED | | | _ | | |
| 63 | 76. | 73. | 0. | 135. | 143. |
| 125 | 76. | 72. | 0. | 136. | 146. |
| 250 | 79. | 78. | 0. | 138. | 148. |
| 500 | 81. | 80. | 0. | 137. | 145. |
| 1000 | 81. | 80. | 0. | 128. | 143. |
| 2000 | 80. | 78. | 0. | 125. | 140. |
| 4000 | 81. | 79. | 0. | 128. | 144. |
| 8000 | 75. | 73. | 0. | 122. | 135. |
| 16000 | 64. | 65. | 0. | 105. | 123. |

CONFIGURATION 56
FINAL MODIFIED CONVENTIONAL MOD B 0/0 OPEN DZ = 50
POWER SETTING 25
READING NO. 949

| | | MICROPHO | NE POSITION | | |
|---------------|-----|----------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 73. | 68. | 0. | 140. | 141. |
| 63 | 72. | 69. | 0. | 142. | 142. |
| 80 | 70. | 67. | 0. | 143. | 142. |
| 100 | 70- | 67. | 0. | 143. | 145. |
| 125 | 71. | 68. | 0. | 142. | 141. |
| 160 | 72. | 70. | 0. | 145. | 144. |
| 200 | 73. | 70. | 0. | 144. | 145. |
| 250 | 75. | 73. | 0. | 143. | 147. |
| 315 | 75. | 74. | 0. | 145. | 145. |
| 400 | 76. | 74. | 0. | 143. | 139. |
| 500 | 78. | 77. | 0. | 144. | 143. |
| 630 | 76. | 77. | 0. | 148. | 144. |
| 800 | 78. | 77. | 0. | 138. | 141. |
| 1000 | 78. | 76. | 0. | 132. | 141. |
| 1250 | 77. | 76. | 0. | 132. | 140. |
| 1600 | 79. | 77. | 0. | 133. | 139. |
| 2000 | 78. | 76. | 0. | 130. | 137. |
| 2500 | 77. | 76. | 0. | 129. | 136. |
| 3150 | 79. | 78. | 0. | 137. | 143. |
| 4000 | 79. | 77. | 0. | 130. | 145. |
| 5000 | 76. | 74. | 0. | 133. | 141. |
| 6300 | 74. | , 73. | 0. | 133. | 136. |
| 8000 | 78. | 77. | 0. | 124. | 131. |
| 10000 | 75. | 72. | 0. | 118. | 127. |
| 12500 | 66. | 67. | 0. | 113. | 122. |
| 16000 | 63. | 66. | 0. | 111. | 116. |
| 20 000 | 55. | 57. | 0. | 109. | 112. |
| OCTAVE FREQ | | | | | |
| 63 | 77. | 73. | 0. | 147. | 146. |
| 125 | 76. | 73. | 0. | 148. | 148. |
| 250 | 79. | 77. | 0. | 149. | 151. |
| 500 | 82. | 81. | 0. | 150. | 147. |
| 1000 | 82. | 81. | 0. | 140. | 145. |
| 2000 | 83. | 81. | 0. | 136. | 142. |
| 4000 | 83. | Al. | 0. | 139. | 148. |
| 8000 | 81. | 79. | 0. | 134. | 138. |
| 16000 | 68. | 70. | 0. | 116. | 123. |

CONFIGURATION 56
FINAL MODIFIED CONVENTIONAL MOD B 0/0 OPEN DZ = 50
POWER SETTING 40
READING NO. 951

| | | MICROPHONE | POSITION | | |
|--------------|------------|------------|----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 5 () | 74. | 67. | 0. | 131. | 142. |
| 63 | 73. | 69. | 0. | 136. | 142. |
| 80 | 70. | 65. | 0. | 137. | 144. |
| 100 | 69. | 66. | 0. | 136. | 146. |
| 125 | 72. | 68. | 0. | 134. | 142. |
| 160 | 73. | 71. | 0. | 137. | 145. |
| 200 | 73. | 71. | 0. | 136. | 145. |
| 250 | 74. | 73. | 0. | 135. | 147. |
| 315 | 75. | 74. | 0. | 137. | 147. |
| 400 | 75. | 74. | 0. | 136. | 142. |
| 50) | 79. | 78. | 0. | 135. | 144. |
| 630 | 78. | 77. | 0. | 139. | 145. |
| 800 | 80. | 78. | 0. | 130. | 142. |
| 1000 | 79. | 77. | 0. | 124. | 142. |
| 1250 | 79. | 77. | 0. | 124. | 142. |
| 1600 | 80. | 78. | 0. | 125. | 141. |
| 2010 | ყე. | 79. | 0. | 124. | 138. |
| 2500 | 78. | 77. | 0. | 123. | 138. |
| 3150 | 3C. | 78. | 0. | 129. | 142. |
| 4000 | 19. | 78. | 0. | 125. | 145. |
| 5000 | 78. | 76. | 0. | 126. | 144. |
| 63.00 | 77. | 75. | 0. | 126. | 137. |
| 8000 | 78. | 80. | 0. | 119. | 134. |
| 10000 | 74. | 75. | 0. | 112. | 129. |
| 12500 | 70. | 70. | 0. | 111. | 127. |
| 16000 | 69. | 70. | 0. | 108. | 117. |
| 20300 | 61. | 60. | 0. | 108. | 112. |
| OCTAVE FRED | | | | | |
| 63 | 77. | 72. | 0. | 140. | 148. |
| 125 | 76. | 74. | 0. | 141. | 149. |
| 250 | 79. | 78. | 0. | 141. | 151. |
| 500 | 82. | 81. | 0. | 142. | 149. |
| 1000 | 84. | 82. | 0. | 132. | 147. |
| 2000 | 84. | 83. | 0. | 129. | 144. |
| 4000 | 84. | 92. | 0. | 132. | 149. |
| 8000 | 81. | 87. | 0. | 127. | 139. |
| 16000 | 73. | 73. | 0. | 114. | 128. |

CONFIGURATION 56
FINAL MODIFIED CONVENTIONAL MOD B 0/0 OPEN DZ = 50
POWER SETTING 55
READING NO. 954

| | | MICROPHO | NE POSITION | | |
|--------------|-----|----------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 75. | 75. | 0. | 133. | 142. |
| 63 | 90. | 79. | 0. | 134. | 142. |
| 80 | 72. | 72. | 0. | 136. | 145. |
| 100 | 73. | 73. | 0. | 137. | 148. |
| 125 | 73. | 73. | 0. | 136. | 143. |
| 160 | 74. | 74. | 0. | 138. | 146. |
| 200 | 75. | 75. | 0. | 137. | 147. |
| 250 | 77. | 76. | 0. | 136. | 149. |
| 315 | 78. | 77. | 0. | 135. | 148. |
| 400 | 78. | 76. | 0. | 136. | 143. |
| 500 | 80. | 79. | 0. | 135. | 145. |
| 630 | 80. | 80. | 0. | 140. | 147. |
| 800 | 81. | 79. | 0. | 131. | 143. |
| 1000 | 81. | 80. | 0. | 125. | 142. |
| 1250 | 92. | 96. | 0. | 123. | 143. |
| 1600 | 84. | 85. | 0. | 125. | 142. |
| 2000 | 82. | 80. | 0. | 125. | 140. |
| 2500 | 85. | 86. | 0. | 122. | 140. |
| 31 50 | 82. | 80. | 0. | 128. | 140. |
| 4000 | 82. | 79. | 0. | 123. | 147. |
| 5000 | 81. | 80. | 0. | 128. | 145. |
| 6300 | 90. | 78. | 0. | 126. | 139. |
| 8000 | 93. | 86. | 0. | 118. | 138. |
| 10000 | 89. | 80. | 0. | 112. | 132. |
| 12500 | 75. | 74. | 0. | 110. | 130. |
| 16000 | 72. | 73. | 0. | 109. | 123. |
| 20000 | 69. | 67. | 0. | 108. | 121. |
| | | | | | |
| OCTAVE FREQ | | | _ | | |
| 63 | 82. | 81. | 0. | 139. | 148. |
| 125 | 78. | 78. | 0. | 142. | 151. |
| 250 | 82. | 81. | 0. | 141. | 153. |
| 500 | 84. | 83. | 0. | 142. | 150. |
| 1000 | 93. | 96. | 0. | 132. | 147. |
| 2000 | 89. | 89. | 0. | 129. | 146. |
| 4000 | 86. | 84. | 0. | 132. | 150. |
| 8000 | 95. | 87. | 0. | 127. | 142. |
| 16000 | 77. | 77. | 0. | 114. | 131. |

CONFIGURATION 56
FINAL MODIFIED CONVENTIONAL MOD 8 0/0 OPEN DZ = 50
POWER SETTING 75
READING NO. 955

| | | MICROPHONE | POSITION | | |
|--------------|------------|------------|----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 75. | 71. | 0. | 134. | 144. |
| 63 | ∂0• | 79. | 0. | 136. | 145. |
| 80 | 71. | 68. | 0. | 137. | 147- |
| 100 | 72. | 70. | 0. | 138. | 151. |
| 125 | 75. | 71. | 0. | 135. | 146. |
| 160 | 75. | 73. | 0. | 138. | 149. |
| 200 | 75. | 74. | 0. | 139. | 150. |
| 250 | 79. | 76. | 0. | 137. | 150. |
| 315 | 79. | 78. | 0. | 134. | 148. |
| 400 | 79. | 77. | 0. | 137. | 145. |
| 500 | 80. | 79. | 0. | 136. | 146. |
| 630 | 80. | 80. | 0. | 140. | 149. |
| 800 | 80. | 80. | 0. | 132. | 146. |
| 1000 | 81. | 79. | 0. | 126. | 144. |
| 1250 | 80. | 78. | 0. | 125. | 146. |
| 1600 | 82. | 80. | 0. | 126. | 144. |
| 20 00 | 82. | 81. | 0. | 126. | 142. |
| 2500 | 83. | 82. | 0. | 123. | 141. |
| 3150 | 83. | 81. | 0. | 127. | 142. |
| 4000 | 83. | 80. | 0. | 124. | 145. |
| 5000 | 81. | 80. | 0. | 131. | 146. |
| 6300 | 81. | 79. | 0. | 126. | 141. |
| 8000 | 93. | 85. | 0. | 122. | 143. |
| 10000 | 30. | 82. | 0. | 113. | 134. |
| 12500 | 78. | 77. | 0. | 110. | 136. |
| 16600 | 75. | 75. | 0. | 109. | 125. |
| 20000 | 76. | 68. | 0. | 108. | 122. |
| OCTAVE FREQ | | | | | |
| 63 | 82. | 80. | 0. | 141. | 150. |
| 125 | 79. | 76. | 0. | 142. | 154. |
| 250 | 83. | 81. | 0. | 142. | 154. |
| 500 | 84. | 84. | 0. | 143. | 152. |
| 1000 | 85. | 84. | 0. | 134. | 150. |
| 2000 | 87. | 86. | 0. | 130. | 147. |
| 4000 | 87. | 85. | 0. | 133. | 149. |
| 8000 | 95. | 87. | 0. | 128. | 145. |
| 16000 | 80. | 79. | 0. | 114. | 136. |
| | | | | | |

CONFIGURATION 56
FINAL MODIFIED CONVENTIONAL MOD B 0/0 OPEN DZ = 50
POWER SFITING 100
READING NO. 957

| | | MICROPHO | NE POSITION | | |
|--------------|--------------------|------------|-------------|------|------|
| 1/3 OCT FREQ | ı | 2 | 3 | 4 | 5 |
| 50 | 77. | 76. | 0. | 133. | 145. |
| 63 | 80. | 79. | 0. | 135. | 146. |
| 80 | 75. | 72. | 0. | 138. | 145. |
| 100 | 76. | 74. | 0. | 138. | 149. |
| 125 | 76. | 74. | 0. | 137. | 146. |
| 160 | 75. | 74. | 0. | 139. | 149. |
| 200 | 76. | 75. | 0. | 140. | 150. |
| 250 | 77. | 77. | 0. | 138. | 149. |
| 315 | 78. | 77. | 0. | 133. | 147. |
| 400 | 78. | 76. | 0. | 137. | 145. |
| 500 | 81. | 79. | 0. | 137. | 145. |
| 630 | 82. | 81. | 0. | 142. | 148. |
| 800 | 82. | 80. | 0. | 134. | 145. |
| 1000 | 81. | 79. | 0. | 127. | 144. |
| 1250 | 90. | 79. | 0. | 126. | 145. |
| 1600 | 83. | 81. | 0. | 126. | 144. |
| 2000 | 85. | 83. | 0. | 128. | 142. |
| <i>2</i> 500 | 86. | 84. | 0. | 123. | 141. |
| 3150 | 86. | 84. | 0. | 126. | 140. |
| 4000 | 84. | 82. | 0. | 126. | 141. |
| 5000 | 82. | 81. | 0. | 128. | 143. |
| 6300 | 83. | 82. | 0. | 126. | 139. |
| 8000 | 86. | 84. | 0. | 121. | 142. |
| 10000 | 86. | 83. | 0. | 113. | 133. |
| 12500 | 82. | 80. | 0. | 110. | 132. |
| 16000 | 81. | 78. | 0. | 108. | 126. |
| 20000 | 73. | 71. | 0. | 108. | 121. |
| 007445 5050 | | | | | |
| OCTAVE FREQ | 0.3 | 0.1 | 0. | 141. | 150. |
| 63 | 83. | 81. 79. | 0. | 143. | 153. |
| 125 | 80. | 81. | 0. | 143. | 154. |
| 250 500 | 82. | 84. | 0. | 144. | 151. |
| 500 | 85. | 84. | 0. | 135. | 149. |
| 1000 | 86. 90. | 88. | 0. | 131. | 147. |
| 2000 | 90. 8 9. | 87. | 0. | 132. | 146. |
| 4000 | 90. | 88. | 0. | 127. | 144. |
| 8000 | | 82. | 0. | 114. | 133. |
| 16000 | 85. | 02• | V • | 1140 | 1000 |

CONFIGURATION 57
FINAL MODIFIED CONVENTIONAL MOD B 0/0 OPFN DZ = 72
POWER SETTING 10
READING NO. 945

| | | MICROPHONE | POSITION | | |
|------------|------|-------------|----------|------|------|
| 1/3 OCT FR | EQ 1 | 2 | 3 | 4 | 5 |
| 50 | 71. | 63. | 0. | 126. | 134. |
| 63 | 72. | 68. | 0. | 129. | 137. |
| 80 | 70. | 67. | 0. | 129. | 137. |
| 100 | 69. | 66. | 0. | 130. | 140. |
| 125 | 70. | 66. | 0. | 131. | 137. |
| 160 | 70. | 68. | 0. | 133. | 140. |
| 200 | 70. | 68. | 0. | 131. | 140. |
| 250 | 73. | 70. | 0. | 129. | 141. |
| 315 | 74. | 73. | 0. | 132. | 139. |
| 400 | 74. | 71. | 0. | 129. | 136. |
| 500 | 78. | 75. | 0. | 136. | 141. |
| 630 | 76. | 75. | 0. | 137. | 141. |
| 800 | 76. | 75. | 0. | 125. | 138. |
| 1000 | 76. | 74. | 0. | 120. | 138. |
| 1250 | 75. | 73. | 0. | 120. | 137. |
| 1600 | 76. | 74. | 0. | 121. | 136. |
| 2000 | 75. | 72. | 0. | 117. | 135. |
| 2500 | 74. | 73. | 0. | 117. | 132. |
| 31 50 | 76. | 74. | 0. | 126. | 137. |
| 4000 | 76. | 74. | 0. | 118. | 142. |
| 5000 | 73. | 70. | 0. | 121. | 137. |
| 6300 | 70. | 69. | 0. | 121. | 135. |
| 8000 | 68. | 67. | 0. | 112. | 128. |
| 10000 | 67. | 67. | 0. | 104. | 126. |
| 12500 | 62. | 64. | 0. | 101. | 119. |
| 16000 | 59. | 63. | 0. | 100. | 114. |
| 20000 | 54. | 56. | 0. | 98. | 112. |
| 007445 501 | - 0 | | | | |
| OCTAVE FRE | | • • | • | | |
| 63 | 76. | 71. | 0. | 133. | 141. |
| 125 | 74. | 72. | 0. | 136. | 144. |
| 250 500 | 77. | 76. | 0. | 136. | 145. |
| 500 | 81. | 79. | 0. | 140. | 145. |
| 1000 | 80. | 79 . | 0. | 127. | 142. |
| 2000 | 80. | 78. | 0. | 124. | 139. |
| 4000 | 80. | 78. | 0. | 128. | 144. |
| 8000 | 73. | 73. | 0. | 122. | 136. |
| 16000 | 64. | 67. | 0. | 105. | 121. |

CONFIGURATION 57
FINAL MODIFIED CONVENTIONAL MOD B 0/0 OPEN DZ = 72
POWER SETTING 25
READING NO. 948

| | | MICROPHO | NE POSITION | | |
|--------------|-----|----------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 72. | 65. | 0. | 129. | 137. |
| 63 | 72. | 69. | 0. | 132. | 139. |
| 80 | 70. | 66. | 0. | 133. | 140. |
| 100 | 70. | 67. | 0. | 132. | 144. |
| 125 | 71. | 67. | 0. | 132. | 139. |
| 160 | 72. | 69. | 0. | 135. | 142. |
| 200 | 71. | 70. | 0. | 133. | 142. |
| 250 | 74. | 72. | 0. | 130. | 143. |
| 315 | 75. | 74. | 0. | 132. | 141. |
| 400 | 75. | 74. | 0. | 131. | 138. |
| 500 | 78. | 77. | 0. | 135. | 141. |
| 630 | 77. | 77. | 0. | 140. | 143. |
| 800 | 77. | 76. | 0. | 127. | 139. |
| 1000 | 78. | 75. | 0. | 122. | 139. |
| 1250 | 76. | 74. | 0. | 121. | 138. |
| 1600 | 78. | 76. | 0. | 123. | 138. |
| 2000 | 77. | 77. | 0. | 120. | 136. |
| 2500 | 76. | 74. | 0. | 119. | 134. |
| 3150 | 78. | 77. | 0. | 127. | 142. |
| 4000 | 77. | 75. | 0. | 120. | 145. |
| 5000 | 75. | 72. | 0. | 122. | 140. |
| 6300 | 74. | 71. | 0. | 123. | 138. |
| 8000 | 74. | 74. | 0. | 114. | 132. |
| 10000 | 70. | 69. | 0. | 107. | 127. |
| 12500 | 64. | 63. | 0. | 102. | 122. |
| 16000 | 61. | 62. | 0. | 101. | 115. |
| 20000 | 55. | 54. | 0. | 99. | 112. |
| OCTAVE FREQ | | | | | |
| 63 | 76. | 72. | 0. | 136. | 144. |
| 125 | 76. | 73. | 0. | 138. | 147. |
| 250 | 78. | 77. | 0. | 137. | 147. |
| 500 | 82. | 81. | 0. | 142. | 146. |
| 1000 | 82. | 80. | 0. | 129. | 143. |
| 2000 | 82. | 81. | 0. | 126. | 141. |
| 4000 | 82. | 80. | 0. | 129. | 148. |
| 8000 | 78. | 77. | 0. | 124. | 139. |
| 16000 | 66. | 66. | 0. | 106. | 123. |

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CONFIGURATION 57
FINAL MODIFIED CONVENTIONAL MOD B 0/0 OPEN DZ = 72
POWER SETTING 40
READING NO. 950

| | | MICROPHONE | POSITION | | |
|--------------|-------|------------|----------|------|------|
| 1/3 OCT F | REQ 1 | ? | 3 | 4 | 5 |
| 50 | 72. | 68. | 0. | 132. | 141. |
| 63 | 73. | 69. | 0. | 135. | 140. |
| 80 | 70. | 66. | 0. | 136. | 141. |
| 100 | 71. | 67. | 0. | 135. | 146. |
| 125 | 71. | 69. | 0. | 135. | 143. |
| 160 | 72. | 70. | 0. | 139. | 146. |
| 200 | 72. | 71. | 0. | 138. | 146. |
| 250 | 75. | 73. | 0. | 132. | 144. |
| 315 | 75. | 73. | 0. | 132. | 142. |
| 400 | 75. | 75. | 0. | 134. | 140. |
| 500 | 79. | 78. | 0. | 137. | 143. |
| 630 | 77. | 77. | 0. | 140. | 143. |
| 800 | 78. | 78. | 0. | 130. | 141. |
| 1000 | 78. | 76. | 0. | 124. | 141- |
| 1250 | 76. | 75. | 0. | 123. | 141- |
| 1600 | 79. | 77. | 0. | 125. | 140. |
| 2000 | 80. | 78. | 0. | 123. | 138. |
| <i>2</i> 500 | 77. | 76. | 0. | 122. | 137. |
| 3150 | 80. | 78. | 0. | 128. | 142. |
| 4000 | 79. | 77. | ũ. | 123. | 145. |
| 5000 | 77. | 75. | 0. | 125. | 144. |
| 6300 | 76. | 75. | 0. | 126. | 139. |
| 8000 | 82. | 80. | 0. | 117. | 139. |
| 10000 | 76. | 74. | 0. | 110. | 130. |
| 12500 | 68. | 69. | 0. | 110. | 126. |
| 16000 | 65. | 68. | 0. | 109. | 116. |
| 20000 | 59. | 6U. | 0. | 108. | 112. |
| OCTAVE F | :D EO | | | | |
| 63 | 77. | 73. | 0. | 139. | 145. |
| 125 | 76. | 74. | 0. | 142. | 150. |
| 250 | 79. | 77. | 0. | 140. | 149. |
| 500 | 82. | 82. | 0. | 142. | 147. |
| 1000 | 82. | 81. | 0. | 132. | 146. |
| 2000 | 84. | 82. | 0. | 128. | 143. |
| 4000 | 84. | 82. | 0. | 131. | 149. |
| 800ŭ | 84. | 82. | 0. | 127. | 142. |
| 16000 | 70. | 72. | 0. | 114. | 127. |
| 1 9000 | ru• | 1 2 0 | • | | |

CCNFIGURATION 57
FINAL MODIFIED CONVENTIONAL MOD B 0/0 OPEN DZ = 72
POWER SETTING 55
READING NO. 953

| | | MICROPHO | NE POSITION | | |
|--------------|-----|----------|-------------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 76. | 75. | 0. | 132. | 142. |
| 63 | 80. | 79. | 0. | 134. | 142. |
| 80 | 74. | 72. | 0. | 136. | 143. |
| 100 | 75. | 74. | 0. | 137. | 146. |
| 125 | 76. | 73. | 0. | 137. | 142. |
| 160 | 76. | 74. | 0. | 139. | 147. |
| 200 | 76. | 74. | 0. | 140. | 146. |
| 250 | 76. | 76. | 0. | 134. | 144. |
| 315 | 79. | 77. | 0. | 133. | 142. |
| 400 | 78. | 77. | 0. | 136. | 141. |
| 500 | 80. | 78. | 0. | 137. | 144. |
| 630 | 80. | 79. | 0. | 141. | 144- |
| 800 | 80. | 78. | 0. | 131. | 142. |
| 1000 | 80. | 78. | 0. | 125. | 141. |
| 1250 | 78. | 77. | 0. | 124. | 142. |
| 1600 | 81. | 79. | 0. | 126. | 141. |
| 2000 | 81. | 79. | 0. | 125. | 138. |
| 2500 | 80. | 78. | 0. | 123. | 139. |
| 3150 | 80. | 78. | 0. | 128. | 142. |
| 4000 | 90. | 77. | 0. | 123. | 144. |
| 5000 | 78. | 76. | 0. | 127. | 144. |
| 6300 | 77. | 75. | 0. | 126. | 138. |
| 8000 | 89. | 83. | 0. | 119. | 141. |
| 10000 | 84. | 77. | 0. | 112. | 130. |
| 12500 | 74. | 71. | 0. | 110. | 127. |
| 16000 | 72. | 69. | 0. | 109. | 117. |
| 20000 | 67. | 64. | 0. | 108. | 112. |
| OCTAVE FREQ | | | | | |
| 63 | 82. | 81. | 0. | 139. | 147. |
| 125 | 90. | 78. | 0. | 143. | 150. |
| 250 | 82. | 81. | 0. | 142. | 149. |
| 500 | 94. | 83. | 0. | 143. | 148. |
| 1000 | 84. | 82. | 0. | 133. | 146. |
| 2000 | 85. | 83. | 0. | 130. | 144. |
| 4000 | 84. | 82. | 0. | 131. | 148. |
| 8000 | 90. | 84. | 0. | 127. | 143. |
| 16000 | 77. | 74. | 0. | 114. | 128. |

CONFIGURATION 57
FINAL MODIFIED CONVENTIONAL MOD B 0/0 OPEN DZ = 72
POWER SETTING 75
READING NO. 956

| | | MICROPHONE | POSITION | | |
|--------------|-----|------------|----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 74. | 70. | 0. | 134. | 142. |
| 63 | 80. | 77. | 0. | 135. | 143. |
| 80 | 72. | 68. | 0. | 139. | 145. |
| 100 | 73. | 70. | 0. | 137. | 148. |
| 125 | 75. | 72. | 0. | 138. | 145. |
| 160 | 75. | 74. | 0. | 140. | 149. |
| 200 | 75. | 74. | 0. | 139. | 146. |
| 250 | 77. | 75. | 0. | 136. | 145. |
| 315 | 78. | 78. | 0. | 134. | 144. |
| 400 | 78. | 77. | 0. | 137. | 142. |
| 500 | 81. | 79. | 0. | 137. | 144. |
| 630 | 80. | 79. | 0. | 140. | 145. |
| 800 | 79. | 79. | 0. | 132. | 143. |
| 1000 | 81. | 79. | 0. | 125. | 141. |
| 1250 | 79. | 78. | 0. | 124. | 143. |
| 1600 | 81. | 79. | 0. | 125. | 142. |
| 2000 | 82. | 81. | 0. | 125. | 140. |
| 2500 | 83. | 80. | 0. | 122. | 140. |
| 3150 | 83. | 80. | 0. | 126. | 139. |
| 4000 | 82. | 79. | 0. | 123. | 143. |
| 5000 | 81. | 79. | 0• | 130. | 145. |
| 6300 | 82. | 79. | 0. | 126. | 141- |
| 8200 | 91. | 83. | 0• | 121. | 146. |
| 10000 | 88. | 80. | 0. | 112. | 134. |
| 12500 | 78. | 76. | 0. | 109. | 133. |
| 16000 | 76. | 74. | 0. | 108. | 124. |
| 20000 | 72. | 68- | 0. | 108. | 121. |
| OCTAVE FREQ | | | | | |
| 63 | 81. | 78. | 0. | 141. | 148. |
| 125 | 79. | 77. | 0. | 143. | 152. |
| 250 | 82. | 81. | 0. | 142. | 150. |
| 500 | 85. | 83. | 0. | 143. | 149. |
| 1000 | 85. | 83. | 0. | 133. | 147. |
| 2000 | 87. | 85. | 0. | 129. | 146. |
| 4000 | 87. | 84. | 0. | 132. | 148. |
| 8000 | 93. | 86. | 0. | 127. | 147. |
| 16000 | 81. | 79. | 0. | 113. | 134. |
| | | . • | | | - |

CONFIGURATION 58
FINAL MODIFIED CONVENTIONAL MOD B 0/0 OPEN DZ = 100
POWER SETTING 10
READING NO. 946

| | | MICROPHONE | PUSTTION | | |
|--------------|-------|------------|----------|------|------|
| 1/3 OCT FREQ | _1 | 2 | 3 | 4 | 5 |
| 50 | 70. | 64. | 0. | 126. | 134. |
| 63 | 72. | 68. | 0. | 130. | 136. |
| 80 | 70. | 66. | 0. | 129. | 136. |
| 100 | 70. | 66. | 0. | 130. | 141. |
| 125 | 71. | 68. | 0. | 131. | 139. |
| 160 | 72. | 69. | 0. | 133. | 140. |
| 200 | 73. | 70. | 0. | 130. | 138. |
| 250 | 76. | 73. | 0. | 127. | 138. |
| 315 | 77. | 75. | 0. | 130. | 137. |
| 400 | 76. | 73. | 0. | 130. | 136. |
| 500 | 79. | 76. | 0. | 137. | 141. |
| 630 | 76. | 75. | 0. | 134. | 138. |
| 800 | 76. | 75. | 0. | 124. | 136. |
| 1000 | 77. | 74. | 0. | 120. | 137. |
| 1250 | 75. | 73. | 0. | 119. | 136. |
| 1500 | 76. | 73. | 0. | 121. | 135. |
| 2000 | 75. | 73. | 0. | 117. | 135. |
| 2500 | 75. | 74. | 0. | 117. | 132. |
| 3150 | 76. | 74. | 0. | 126. | 137. |
| 4000 | 76. | 73. | 0. | 117. | 142. |
| 5000 | 73. | 71. | 0. | 121. | 138. |
| 6300 | 70. | 70. | 0. | 121. | 134. |
| 9000 | 71. | 70. | 0. | 111. | 129. |
| 10000 | 6 A • | 66. | 0. | 105. | 125. |
| 12500 | 62. | 63. | 0. | 101. | 119. |
| 16000 | 58. | 63. | 0. | 100. | 114. |
| 20000 | 53. | 55. | 0. | 98. | 111. |
| CCTAVE FREQ | | | | | |
| 63 | 76. | 71. | 0. | 133. | 140. |
| 125 | 76. | 73. | 0. | 136. | 145. |
| 250 | 80. | 78. | 0. | 134. | 142. |
| 500 | 82. | 80. | 0. | 139. | 144. |
| 1000 | 81. | 79. | 0. | 126. | 141. |
| 2000 | 80. | 78. | 0. | 124. | 139. |
| 4000 | 80. | 78. | 0. | 128. | 144. |
| 0008 | 75. | 74. | 0. | 122. | 136. |
| 16000 | 64. | 66. | 0. | 105. | 121. |

CONFIGURATION 58
FINAL MODIFIED CONVENTIONAL MOD B 0/0 OPEN DZ = 100
POWER SETTING 40
READING NO. 952

| | | MICROPHONE | POSITION | | |
|--------------|-----|------------|----------|------|------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 77. | | 0. | 133. | 141. |
| 63 | 81. | | 0. | 136. | 142. |
| 80 | 76. | | 0. | 136. | 142. |
| 100 | 78. | | 0. | 136. | 146. |
| 125 | 80. | | 0. | 135. | 142. |
| 160 | 81. | | 0. | 138. | 144. |
| 200 | 82. | | 0. | 135. | 142. |
| 250 | 84. | | 0. | 132. | 142- |
| 315 | 85. | | 0. | 133. | 140. |
| 400 | 86. | | 0. | 134. | 139. |
| 500 | 89. | | 0. | 137. | 142. |
| 630 | 88. | | 0. | 142. | 143. |
| 800 | 88. | | 0. | 129. | 141. |
| 1000 | 88. | | 0. | 124. | 140. |
| 1250 | 86. | | 0. | 123. | 140. |
| 1600 | 88. | | 0. | 124. | 140. |
| 2000 | 89. | | 0. | 122. | 138. |
| 2500 | 87. | | 0. | 121. | 137. |
| 3150 | 88. | | 0. | 128. | 141. |
| 4000 | 87. | | 0. | i22. | 145. |
| 5000 | 87. | | 0. | 124. | 144. |
| 6300 | 85. | | 0. | 125. | 139. |
| 8000 | 91. | | 0. | 117. | 136. |
| 10000 | 84. | | 0. | 110. | 130. |
| 12500 | 81. | | 0. | 109. | 126. |
| 16000 | 80. | | 0. | 108. | 118. |
| 20000 | 72. | | 0. | 108. | 112. |
| OCTAVE FREQ | | | | | |
| 63 | 83. | | 0. | 140. | 146. |
| 125 | 85. | | 0. | 141. | 149. |
| 250 | 89. | | 0. | 138. | 146. |
| 500 | 93. | | 0. | 144. | 146. |
| 1000 | 92. | | 0. | 131. | 145. |
| 2000 | 93. | | 0. | 127. | 143. |
| 4000 | 92. | | 0. | 130. | 148. |
| 8000 | 93. | | 0. | 126. | 141. |
| 16000 | 84. | | 0. | 113. | 127. |

CONFIGURATION 59
FINAL PRECHAMBER WALL FUEL FILM MOD D
POWER SETTING 10
READING NO. 1020

| | | MICROPHONE | POSITION | | |
|--------------|-----|------------|----------|------|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 71. | 66. | 0. | 127. | 9. |
| 63 | 73. | 70. | 0. | 129. | 0. |
| 80 | 71. | 64. | 0. | 127. | 0. |
| 100 | 71. | 64. | 0. | 130. | 0. |
| 125 | 72. | 67. | 0. | 146. | 0. |
| 160 | 71. | 66. | 0. | 137. | 0. |
| 200 | 70. | 67. | 0. | 127. | 0. |
| 250 | 72. | 70. | 0. | 130. | 0. |
| 315 | 74. | 72. | 0. | 133. | 0. |
| 400 | 74. | 72. | 0. | 134. | 0. |
| 500 | 76. | 75. | 0. | 125. | 0. |
| 630 | 76. | 73. | 0. | 124. | 0. |
| 800 | 75. | 72. | 0. | 124. | 0. |
| 1000 | 75. | 73. | 0. | 121. | 0. |
| 1250 | 75. | 73. | 0. | 122. | 0. |
| 1600 | 77. | 74. | 0. | 124. | 0. |
| 2000 | 76. | 74. | 0. | 122. | 0. |
| 2500 | 75. | 72. | 0. | 120. | 0. |
| 3150 | 71. | 74. | 0. | 125. | 0. |
| 4000 | 77. | 74. | 0. | 117. | 0. |
| 5000 | 77. | 72. | 0. | 123. | 0. |
| 6300 | 72. | 69. | 0. | 119. | 0. |
| 8000 | 69. | 67. | 0. | 114. | 0. |
| 10000 | 67. | 66. | 0. | 107. | 0. |
| 1 2500 | 61. | 63. | 0. | 110. | 0. |
| 16000 | 58. | 61. | 0. | 110. | 0. |
| 20000 | 54. | 56. | 0. | 110. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 77. | 72. | 0. | 133. | 0. |
| 125 | 76. | 71. | 0. | 147. | 0. |
| 250 | 77. | 75. | 0. | 135. | 0. |
| 500 | 80. | 78. | 0. | 135. | 0. |
| 1000 | 90. | 77. | 0. | 127. | 0. |
| 2000 | 81. | 78. | 0. | 127. | 0. |
| 4000 | 82. | 78. | 0. | 128. | 0. |
| 8000 | 75. | 72. | 0. | 120. | 0. |
| 16000 | 63. | 66. | 0. | 115. | 0. |

CCNFIGURATION 59
FINAL PRECHAMBER WALL FUEL FILM MOD D
PCWER SETTING 25
READING NO. 1021

| | | MICROPHON | E POSITION | | |
|--------------|-----|-----------|------------|------|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 70. | 66. | 0. | 128. | 0. |
| 63 | 71. | 69. | 0. | 130. | 0. |
| 80 | 68. | 66. | 0. | 129. | 0. |
| 100 | 68. | 66. | 0. | 130. | 0. |
| 125 | 72. | 70. | 0. | 149. | 0. |
| 160 | 71. | 69. | 0. | 146. | 0. |
| 200 | 70. | 68. | 0. | 130. | 0. |
| 250 | 74. | 71. | 0. | 134. | 0. |
| 315 | 76. | 73. | 0. | 139. | 0. |
| 400 | 75. | 72. | 0. | 142. | 0. |
| 500 | 77. | 76. | 0. | 134. | 0. |
| 630 | 77. | 75. | 0. | 128. | 0. |
| 300 | 78. | 75. | 0. | 127. | 0. |
| 1000 | 77. | 75. | 0. | 123. | 0. |
| 1250 | 77. | 75. | 0. | 124. | 0. |
| 1600 | 90. | 77. | 0. | 126. | 0. |
| 2000 | 78. | 76. | 0. | 124. | 0. |
| 2500 | 78. | 75. | 0. | 122. | 0. |
| 3150 | 80. | 77. | 0. | 126. | 0. |
| 4000 | 78. | 76. | 0. | 119. | 0. |
| 5000 | 79. | 75. | 0. | 126. | 0. |
| 6300 | 74. | 72. | 0. | 121. | 0. |
| 8300 | 71. | 70. | 0. | 116. | 0. |
| 10000 | 68. | 68. | 0. | 108. | 0. |
| 12500 | 63. | 65. | 0. | 110. | 0. |
| 16000 | 59. | 62. | 0. | 109. | 0. |
| 20000 | 56. | 55. | 0. | 109. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 75. | 72. | 0. | 134. | 0. |
| 125 | 75. | 73. | 0. | 151. | 0. |
| 250 | 79. | 76. | 0. | 141. | 0. |
| 500 | 81. | 79. | 0. | 143. | 0. |
| 1000 | 82. | 80. | 0. | 130. | 0. |
| 2000 | 84. | 81. | 0. | 129. | 0. |
| 4000 | 84. | 81. | 0. | 129. | 0. |
| 8000 | 76. | 75. | 0. | 122. | 0. |
| 16000 | 65. | 67. | 0. | 114. | 0. |
| | | | | | |

CONFIGURATION 59
FINAL PRECHAMBER WALL FUEL FILM MOD D
POWER SETTING 40
READING NO. 1022

Marie Marie Land Children At Late of

| | | MICROPHO | NE POSITION | | |
|--------------|-------------|----------|-------------|-------|----|
| 1/3 OCT FREQ | _1 | 2 | 3 | 4 | 5 |
| 50 | 70. | 63. | 0. | 129. | 0. |
| 63 | 71. | 69. | 0. | 130. | 0. |
| 80 | 68. | 63. | 0. | 131. | 0. |
| 100 | 69. | 65. | 0. | 131. | 0. |
| 125 | 71. | 68. | 0. | 141. | 0. |
| 160 | 74. | 74. | 0. | 150. | 0. |
| 200 | 71. | 68. | 0. | 134. | 0. |
| 250 | 74. | 72. | 0. | 135. | 0. |
| 315 | 77. | 75. | 0. | 145. | 0. |
| 400 | 79. | 75. | 0. | 146. | 0. |
| 500 | 80. | 78. | 0. | 146. | 0. |
| 630 | 82. | 80. | 0. | 135. | 0. |
| 800 | 81. | 79. | 0. | 131. | 0. |
| 1000 | 79. | 78. | 0. | 126. | 0. |
| 1250 | 78. | 77. | 0. | 126. | 0. |
| 1600 | 81. | 79. | 0. | 128. | 0. |
| 2000 | 80. | 78. | 0. | 126. | 0. |
| 2500 | 79. | 76. | 0. | 122. | 0. |
| 3150 | 81. | 78. | 0. | 126. | 0. |
| 4000 | 79. | 77. | 0. | 121. | 0. |
| 5000 | 81. | 77. | 0. | 129. | 0. |
| 6300 | 75. | 74. | 0. | 122. | 0. |
| 8000 | 73. | 72. | 0. | 119. | 0. |
| 10000 | 70. | 70. | 0. | 110. | 0. |
| 12500 | 65. | 67. | 0. | 110. | 0. |
| 16000 | 61. | 63. | 0. | 109. | 0. |
| 20000 | 56. | 57. | 0. | 109., | 0. |
| OCTAVE FORO | | | | | |
| OCTAVE FREQ | 76 | 71- | • | 126 | ^ |
| 63 | 75. | 71. | 0. | 135. | 0. |
| 125 | 77. | 75. | 0. | 151. | 0. |
| 250 | 79. | 77. | 0. | 146. | 0. |
| 500 | 85. | 83. | 0. | 149. | 0. |
| 1000 | 84. | 83. | 0. | 133. | 0. |
| 2000 | 85 . | 83. | 0. | 131. | 0. |
| 4000 | 85. | 82. | 0. | 131. | 0. |
| 8000 | 78. | 77. | 0. | 124. | 0. |
| 16000 | 67. | 69. | 0. | 114. | 0. |

CONFIGURATION 59
FINAL PRECHAMBER WALL FUEL FILM MOD D
POWER SETTING 55
READING NO. 1023

| | | MICROPHON | E POSITION | | |
|--------------|-----|-----------|------------|----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 70. | 72. | 0. | 0. | 0. |
| 63 | 78. | 77. | 0. | 0. | 0. |
| 80 | 67. | 70. | 0. | 0. | 0. |
| 100 | 70. | 70- | 0. | 0. | 0. |
| 125 | 75. | 73. | 0. | 0. | 0. |
| 160 | 78. | 77. | 0. | 0. | 0. |
| 200 | 74. | 72. | 0. | 0. | 0. |
| 250 | 76. | 74. | 0. | 0. | 0. |
| 315 | 80. | 77. | 0. | 0. | 0. |
| 400 | 80. | 77. | 0. | 0. | 0. |
| 500 | 81. | 80. | 0. | 0. | 0. |
| 630 | 84. | 82. | 0. | 0. | 0. |
| 800 | 83. | 81. | 0. | 0. | 0. |
| 1000 | 81. | 79. | 0. | 0. | 0. |
| 1250 | 81. | 92. | 0. | 0. | 0. |
| 1600 | 82• | 82. | 0. | 0. | 0. |
| 2000 | 81. | 78. | 0. | 0. | 0. |
| 2500 | 80. | 79. | 0. | 0. | 0. |
| 3150 | 82. | 78. | 0. | 0. | 0. |
| 4000 | 80. | 77. | 0. | 0. | 0. |
| 5000 | 81. | 77. | 0. | 0. | 0. |
| 6300 | 76. | 74. | 0. | 0. | 0. |
| 8000 | 73. | 72. | 0. | 0. | 0. |
| 10000 | 70. | 69. | 0. | 0. | 0. |
| 12500 | 66. | 66. | 0. | 0. | 0. |
| 16000 | 61. | 62. | 0. | 0. | 0. |
| 20000 | 57. | 55. | 0. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 79. | 79. | 0. | 0. | 0. |
| 125 | 80. | 79. | 0. | 0. | 0. |
| 250 | 82, | 80. | 0. | 0. | 0. |
| 500 | 87. | 85. | 0. | 0. | 0. |
| 1000 | 87. | 93. | 0. | 0. | 0. |
| 2000 | 86. | 85. | 0. | 0. | 0. |
| 4000 | 86. | 82. | 0. | 0. | 0. |
| 8000 | 78. | 77. | 0. | 0. | 0. |
| 16000 | 68. | 68. | 0. | 0. | 0. |

APPENDIX II

NOISE SPECTRA FOR FUEL INJECTION MODE TESTS

Sound pressure level (db re $2 \times 10^{-5} \text{ N/m}^2$) data are presented in this appendix. Microphone position 1 is the test cell microphone, and microphone position 2 is the inlet duct microphone. Burner operating points (power setting) are described in Table 12 and mass emissions are listed in Table 13. The data in this appendix are presented in the order of Table 13, and can be correlated to the data in the appendix using the reading number.

VG=.40 FUEL MODE=NONE FUEL=NONE POWER SETTING 50 READING NO. 2114

| | | MICROPH | ONE POSITION | | |
|--------------|-----|---------|--------------|-----|-----------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 68. | 120. | 0. | 0. | 0. |
| 63 | 68. | 119. | 0. | 0. | 0. |
| 80 | 67. | 116. | 0. | 0. | 0. |
| 100 | 69. | 112. | 0. | 0. | C. |
| 125 | 69. | 113. | 0. | 0 • | 0. |
| 160 | 68. | 110. | 0. | 0. | 0. |
| 200 | 68. | 111. | 0. | 0. | 0. |
| 250 | 68. | 113. | 0. | 0. | 0. |
| 315 | 68. | 112. | 0• | 0. | n. |
| 400 | 67. | 114. | 0. | 0. | 0. |
| 500 | 68. | 119. | 0. | 0. | 0. |
| 630 | 68. | 117. | n. | 0. | 0. |
| 800 | 68. | 121. | 0. | 0. | 0. |
| 1000 | 68. | 122. | 0. | 0. | 0. |
| 1250 | 68. | 119. | 0. | 0. | 0. |
| 1600 | 67. | 121. | 0. | 0. | 0. |
| 2000 | 67. | 120. | 0. | 0. | 0. |
| 2500 | 67. | 118. | c. | 0. | 0. |
| 3150 | 67• | 119. | 0. | 0. | າ. |
| 4000 | 68. | 118. | 0. | 0. | 0. |
| 5000 | 68. | 119. | 0. | 0. | 0. |
| 6300 | 67. | 122. | 0. | 0 • | 0. |
| 8000 | 67. | 124. | 0. | 0. | 0. |
| 0000 | 67. | 125. | 0. | n. | 0. |
| 1 2500 | 68. | 126. | 0. | 0. | 0. |
| 16000 | 67. | 127. | 0. | 0. | 0. |
| 20000 | 68. | 125. | 0. | 0. | 0. |
| CCTAVE FREQ | | | | | |
| 63 | 72. | 123. | 0. | 0. | 0. |
| 125 | 73. | 117. | n. | ñ. | o. |
| 250 | 73. | 117. | 0. | 0. | 0. |
| 500 | 72. | 122. | 0. | 0. | 0. |
| 1000 | 73. | 126. | ñ. | 0. | 0. |
| 2000 | 72. | 125. | 0. | 0. | 0. |
| 4000 | 72. | 123. | ñ. | 0. | n. |
| 8000 | 72. | 129. | 0. | ñ. | 0. |
| 16000 | 72. | 131. | Õ. | 0. | o. |
| | • | | | • | • |

VG=.60 FUEL MODE=NONE FUFL=NONE POWER SETTING 70 READING NO. 2140

| | | MICROPHO | NE POSITION | | |
|--------------|-----|----------|-------------|----|-----------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 127. | 0. | 0. | 0. |
| 67 | 67. | 126. | 0. | 0. | 0. |
| 80 | 68. | 123. | 0. | 0. | n. |
| 100 | 68. | 120. | 0. | 0. | ο. |
| 125 | 67. | 120. | 0. | 0. | 0. |
| 160 | 68. | 119. | 0• | 0. | 0. |
| 200 | 68. | 118. | 0. | 0. | 0. |
| 250 | 68. | 117. | 0. | 0. | 0. |
| 315 | 67. | 116. | 0. | 0. | 0. |
| 400 | 67. | 115. | 0. | n. | 0. |
| 500 | 67. | 117. | 0. | 0. | 0. |
| 630 | 68. | 118. | 0. | 0. | 0. |
| 800 | 68. | 116. | 0. | 0. | 0. |
| 1000 | 68. | 117. | 0. | 0. | 0. |
| 1250 | 67. | 119. | 0. | 0. | 7. |
| 1600 | 67. | 117. | 0. | n. | 0. |
| 2000 | 67. | 117. | 0. | 0. | C. |
| 2 500 | 67. | 118. | 0. | 0. | 0. |
| 31 50 | 67. | 120. | 0. | 0. | o. |
| 4000 | 68. | 123. | 0. | 0. | 2. |
| 5000 | 67. | 123. | 0. | 0. | 0. |
| 6300 | 67. | 123. | 0. | 0. | 0. |
| 8000 | 67. | 120. | 0. | 0. | 0. |
| 1 00 0 0 | 67. | 122. | 0. | 0. | 0. |
| 12500 | 67. | 118. | 0. | 0. | ე• |
| 16000 | 68. | 115. | 0. | 0. | 0. |
| 20000 | 68. | 110. | 0. | 0. | . |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 130. | 0. | 0. | 0. |
| 125 | 72. | 124. | 0. | 0. | 0. |
| 250 | 72. | 122. | 0. | 0. | 0. |
| 500 | 72. | 122. | 0. | 0. | 0. |
| 1000 | 72. | 122. | ñ. | 0. | Ď. |
| 2000 | 72. | 122. | 0. | 0. | ń. |
| 4000 | 72. | 127. | 0. | 0. | 0. |
| 8000 | 72. | 127. | 0. | 0. | 0. |
| 16000 | 72. | 120. | 0. | 0. | 0. |

VG=.RO FUEL MODE=NONE FUEL=NONE POWER SETTING 80 READING NO. 2144

| | | MICROPHO | ONE POSITION | | |
|--------------|-------|----------|--------------|----------|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 136. | 0. | 0. | 0. |
| 63 | 68. | 136. | 0. | 0. | 0. |
| RO | 68. | 135. | 0. | 0. | 0. |
| 100 | 68. | 130. | 0. | 0. | 0. |
| 125 | 67. | 129. | 0. | 0. | 0. |
| 160 | 67. | 129. | 0. | 0. | 0. |
| 200 | 67. | 128. | 0. | 0. | 0. |
| 250 | 68. | 127. | 0. | 0. | n. |
| 315 | 68. | 125. | 0. | 0. | 0. |
| 400 | 67. | 124. | 0. | 0. | 0. |
| 500 | 68. | 127. | 0. | 0. | 0. |
| 630 | 68. | 128. | 0. | n. | ñ. |
| 800 | 67. | 127. | 0. | 0. | 0. |
| 1000 | 68. | 127. | 0. | 0. | 0. |
| 1250 | 67. | 129. | 0. | 0. | 0. |
| 1600 | 68. | 128. | 0. | 0. | 0. |
| 2000 | 57. | 127. | 0. | 0. | n. |
| 25 00 | 68. | 128. | 0. | 0. | n. |
| 3150 | 67. | 130. | 0. | 0. | 0. |
| 4000 | 68. | 134. | 0. | 0. | 0. |
| 5000 | 67. | 133. | 0. | 0. | 0. |
| 6300 | 68. | 133. | 0. | 0. | c. |
| 8000 | 67. | 130. | 0. | 0. | 0. |
| 10000 | 68. | 133. | 0. | 0. | n. |
| 12500 | 68. | 128. | 0. | 0. | 0. |
| 16000 | 68. | 125. | 0. | 0. | 0. |
| 20000 | 68. | 120. | 0. | 0. | ń. |
| CCTAVE FREQ | | | | | |
| 63 | 73. | 140. | 0. | ^ | 0 |
| 125 | 72. | 134. | 0. | 0. 0. | 0. |
| 250 | 72. | 132. | 0. | | 0. |
| 500 | 72. | 131. | 0. | 0. | 0. |
| 1000 | 72. | 133. | 0. | 0. | 0. |
| 2000 | 72. | 132. | 0. | 0. | 0. |
| 4000 | 72. | 137. | 0. | 0. | 0. |
| 8000 | 72. | 137. | 0. | 0. | 0. |
| 16000 | 73. | 130. | | 0. | 0. |
| 10000 | 1 3 6 | 1300 | 0. | 0. | 0. |

VG=.70 FUEL MODE=NCNE FUEL=NONE POWER SETTING 85 READING NO. 2101

| | | MICROPHO | NE POSITION | | |
|--------------|-----|----------|-------------|-----|----|
| 1/3 OFT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 127. | 0. | 0. | 0. |
| 63 | 68. | 129. | 0. | 0. | C. |
| 80 | 68. | 124. | 0. | 0. | 0. |
| 100 | 68. | 120. | 0. | 0. | 0. |
| 125 | 67. | 120. | 0. | 0. | 0. |
| 160 | 68. | 120. | 0. | 0. | 0. |
| 200 | 68. | 120. | 0. | 0. | 0. |
| 250 | 68. | 122. | 0. | 0. | 0. |
| 315 | 68. | 123. | 0. | 0. | 0. |
| 400 | 67. | 120. | 0. | 0. | 0. |
| 500 | 67. | 123. | 0. | 0 • | 0. |
| 630 | 68. | 125. | 0. | 0. | 0. |
| 800 | 68. | 125. | 0. | 0• | 0. |
| 1000 | 68. | 124. | 0. | 0. | 0. |
| 1250 | 68. | 124. | 0. | 0. | C. |
| 1600 | 68. | 126. | 0• | 0 • | C. |
| 2000 | 67. | 128. | 0. | 0. | 0. |
| 2500 | 67. | 126. | 0. | 0. | 0. |
| 3150 | 67. | 127. | 0. | 0. | 0. |
| 4000 | 68• | 128. | 0. | 0. | 0. |
| 5000 | 67. | 128. | 0. | 0 • | 0. |
| 6300 | 68. | 132. | 0. | 0. | 0. |
| 8000 | 67. | 133. | 0. | 0 • | C. |
| 10200 | 68. | 134. | 0. | 0. | 0. |
| 12500 | 68. | 136. | 0. | 0. | 0. |
| 16000 | 68. | 136. | 0. | 0. | 0. |
| 20000 | 68. | 135. | 0. | 0. | 0. |
| OCTAVE FREQ | | | | _ | |
| 63 | 73. | 132. | 0. | 0. | 0. |
| 125 | 72. | 125. | 0. | 0. | 0. |
| 250 | 73. | 127. | 0. | 0. | 0. |
| 500 | 72. | 128. | 0. | 0. | 0. |
| 1000 | 73. | 129. | 0• | 0. | 0. |
| 2000 | 72. | 132. | 0. | 0. | 0. |
| 4000 | 72. | 132. | 0. | 0. | 0. |
| 8000 | 72. | 138. | 0. | 0. | 0. |
| 16000 | 73. | 140. | 0. | 0. | 0. |

| MICROPHONE POSITION |
|--|
| 50 69. 121. 0. 0. 0. 63 68. 118. 0. 0. 0. 80 67. 118. 0. 0. 0. 100 68. 115. 0. 0. 0. 125 67. 117. 0. 0. 0. 160 68. 118. 0. 0. 0. 200 68. 116. 0. 0. 0. 250 68. 116. 0. 0. 0. 315 68. 113. 0. 0. 0. 400 67. 113. 0. 0. 0. 500 67. 115. 0. 0. 0. 630 68. 116. 0. 0. 0. 800 68. 115. 0. 0. 0. 1250 67. 117. 0. 0. 0. 1250 67. 119. 0. 0. 0. 2000 67. 128. |
| 63 68. 118. 0. 0. 0. 80 67. 118. 0. 0. 0. 100 68. 415. 0. 0. 0. 125 67. 117. 0. 0. 0. 160 68. 118. 0. 0. 0. 200 68. 116. 0. 0. 0. 250 68. 116. 0. 0. 0. 315 68. 113. 0. 0. 0. 400 67. 113. 0. 0. 0. 500 67. 115. 0. 0. 0. 630 68. 116. 0. 0. 0. 800 68. 115. 0. 0. 0. 1000 68. 116. 0. 0. 0. 1250 67. 117. 0. 0. 0. 1600 67. 119. 0. 0. 0. 2500 67. 128. |
| 80 67. 118. 0. 0. 0. 100 68. 115. 0. 0. 0. 125 67. 117. 0. 0. 0. 160 68. 118. 0. 0. 0. 200 68. 116. 0. 0. 0. 250 68. 116. 0. 0. 0. 315 68. 113. 0. 0. 0. 400 67. 113. 0. 0. 0. 500 67. 115. 0. 0. 0. 630 68. 116. 0. 0. 0. 800 68. 115. 0. 0. 0. 1000 68. 116. 0. 0. 0. 1250 67. 117. 0. 0. 0. 2000 67. 128. 0. 0. 0. 3150 67. 128. 0. 0. 0. |
| 125 67. 117. 0. 0. 0. 160 68. 118. 0. 0. 0. 200 68. 116. 0. 0. 0. 250 68. 116. 0. 0. 0. 315 68. 113. 0. 0. 0. 400 67. 113. 0. 0. 0. 500 67. 115. 0. 0. 0. 630 68. 116. 0. 0. 0. 800 68. 115. 0. 0. 0. 1000 68. 116. 0. 0. 0. 1250 67. 117. 0. 0. 0. 1600 67. 119. 0. 0. 0. 2500 67. 128. 0. 0. 0. 3150 67. 123. 0. 0. 0. |
| 125 67. 117. 0. 0. 0. 160 68. 118. 0. 0. 0. 200 68. 116. 0. 0. 0. 250 68. 116. 0. 0. 0. 315 68. 113. 0. 0. 0. 400 67. 113. 0. 0. 0. 500 67. 115. 0. 0. 0. 630 68. 116. 0. 0. 0. 800 68. 115. 0. 0. 0. 1000 68. 116. 0. 0. 0. 1250 67. 117. 0. 0. 0. 1600 67. 119. 0. 0. 0. 2500 67. 128. 0. 0. 0. 3150 67. 123. 0. 0. 0. |
| 200 68. 116. 0. 0. 0. 250 68. 116. 0. 0. 0. 315 68. 113. 0. 0. 0. 400 67. 113. 0. 0. 0. 500 67. 115. 0. 0. 0. 630 68. 116. 0. 0. 0. 800 68. 115. 0. 0. 0. 1000 68. 116. 0. 0. 0. 1250 67. 117. 0. 0. 0. 2000 67. 119. 0. 0. 0. 2500 67. 128. 0. 0. 0. 3150 67. 123. 0. 0. 0. |
| 250 68. 116. 0. 0. 0. 315 68. 113. 0. 0. 0. 400 67. 113. 0. 0. 0. 500 67. 115. 0. 0. 0. 630 68. 116. 0. 0. 0. 800 68. 115. 0. 0. 0. 1000 68. 116. 0. 0. 0. 1250 67. 117. 0. 0. 0. 1600 67. 119. 0. 0. 0. 2000 67. 122. 0. 0. 0. 2500 67. 128. 0. 0. 0. 3150 67. 123. 0. 0. 0. |
| 315 68. 113. 0. 0. 0. 400 67. 113. 0. 0. 0. 500 67. 115. 0. 0. 0. 630 68. 116. 0. 0. 0. 800 68. 115. 0. 0. 0. 1000 68. 116. 0. 0. 0. 1250 67. 117. 0. 0. 0. 2000 67. 119. 0. 0. 0. 2500 67. 128. 0. 0. 0. 3150 67. 123. 0. 0. 0. |
| 400 67. 113. 0. 0. 0. 500 67. 115. 0. 0. 0. 630 68. 116. 0. 0. 0. 800 68. 115. 0. 0. 0. 1000 68. 116. 0. 0. 0. 1250 67. 117. 0. 0. 0. 1600 67. 119. 0. 0. 0. 2000 67. 122. 0. 0. 0. 2500 67. 128. 0. 0. 0. 3150 67. 123. 0. 0. 0. |
| 500 67. 115. 0. 0. 0. 630 68. 116. 0. 0. 0. 800 68. 115. 0. 0. 0. 1000 68. 116. 0. 0. 0. 1250 67. 117. 0. 0. 0. 1600 67. 119. 0. 0. 0. 2000 67. 122. 0. 0. 0. 2500 67. 128. 0. 0. 0. 3150 67. 123. 0. 0. 0. |
| 630 68. 116. 0. 0. 0. 0. 0. 10. 1000 68. 115. 0. 0. 0. 0. 1250 67. 117. 0. 0. 0. 0. 1600 67. 119. 0. 0. 0. 0. 2000 67. 122. 0. 0. 0. 0. 0. 2500 67. 128. 0. 0. 0. 0. 0. 0. 3150 67. 123. 0. 0. 0. 0. |
| 800 68. 115. 0. 0. 0. 1000 68. 116. 0. 0. 0. 1250 67. 117. 0. 0. 0. 1600 67. 119. 0. 0. 0. 2000 67. 122. 0. 0. 0. 2500 67. 128. 0. 0. 0. 3150 67. 123. 0. 0. 0. |
| 1000 68. 116. 0. 0. 0. 1250 67. 117. 0. 0. 0. 1600 67. 119. 0. 0. 0. 2000 67. 122. 0. 0. 0. 2500 67. 128. 0. 0. 0. 3150 67. 123. 0. 0. 0. |
| 1250 67. 117. 0. 0. 0. 1600 67. 119. 0. 0. 0. 2000 67. 122. 0. 0. 0. 2500 67. 128. 0. 0. 0. 3150 67. 123. 0. 0. 0. |
| 1600 67. 119. 0. 0. 0. 2000 67. 122. 0. 0. 0. 2500 67. 128. 0. 0. 0. 3150 67. 123. 0. 0. 0. |
| 2000 67. 122. 0. 0. 0. 2500 67. 128. 0. 0. 0. 3150 67. 123. 0. 0. 0. |
| 2500 67. 128. 0. 0. 0. 0. 3150 67. 123. 0. 0. 0. |
| 3150 67. 123. 0. 0. 0. |
| |
| 4000 68. 125. 0. 0. 0. |
| |
| 5000 68. 126. 0. 0. 0. |
| 6300 67. 123. 0. 0. 0. |
| 8000 67. 120. 0. 0. 0. |
| 10000 67. 122. 0. 0. 0. |
| 12500 67. 112. 0. 0. 0. |
| 16000 68. 109. 0. 0. |
| 20000 68. 102. 0. 0. 0. |
| OCTAVE FREQ |
| 63 73. 124. 0. 0. 0. |
| 125 72. 122. 0. 0. 0. |
| 250 73. 120. 0. 0. 0. |
| 500 72. 120. 0. 0. 0. |
| 1000 72. 121. 0. 0. 0. |
| 2000 72. 129. 0. 0. 0. |
| 4000 72. 130. 0. 0. 0. |
| 8000 72. 127. 0. 0. 0. |
| 16000 72. 114. 0. 0. 0. |

| | | MICROPHONE | POSITION | | |
|--------------|------------|--------------|----------|----------|----|
| 1/3 OUT FRE | 0 1 | 2 | 3 | 4 | .5 |
| 50 | 67. | 120. | 0. | 0. | 0. |
| 63 | 68. | 120. | 0. | 0. | 0. |
| 90 | 67. | 116. | 0. | 0. | 0. |
| 100 | 68. | 112. | 0. | 0. | 0. |
| 125 | 67. | 111. | 0. | 0. | 0. |
| 160 | 68. | 111. | 0. | 0. | 0. |
| 200 | 68. | 112. | 0. | 0. | 0. |
| 250 | 68. | 113. | 0. | 0. | 0. |
| 315 | 68. | 113. | 0. | 0. | 0. |
| 400 | 67. | 114. | 0. | 0. | 0. |
| 500 | 68. | 118. | 0. | 0. | 0. |
| 630 | 68. | 117. | 0. | 0. | 0. |
| 800 | 68. | 121. | 0. | 0. | 0. |
| 1000 | 68. | 120. | 0. | 0. | 0. |
| 1250 | 68. | 118. | 0. | 0. | 0. |
| 1600 | 67. | 121. | 0. | 0. | 0. |
| 2000 | 67. | 120. | 0 • | 0. | 0. |
| 2500 | 67. | 118. | 0. | 0. | 0. |
| 3150 | 67. | 119. | 0. | 0. | 0. |
| 4000 | 68. | 118. | 0. | 0. | 0. |
| 5000 | 67. | 119. | 0. | 0. | 0. |
| 6300 | 68• | 122. | 0. | 0. | 0. |
| 0008 | 67. | 124. | 0. | 0. | 0. |
| 10000 | 67. | 125. | 0• | 0. | 0. |
| 1 2500 | 67. | 126. | 0. | 0. | 0. |
| 16000 | 67. | 127. | 0. | 0. | 0. |
| 20000 | 68. | 126. | 0. | 0. | 0. |
| 067 446 504 | | | | | |
| OCT AVE FRE | | 104 | • | • | • |
| 63 | 72. | 124. | 0. | 0. | 0. |
| 125 | 72. | 116. | 0. | 0. | 0. |
| 250 500 | 73. | 117. | 0. | 0. | 0. |
| 500 | 72. | 121. | 0. | 0. | 0. |
| 1000 | 73. | 125. | 0. | 0. | 0. |
| 2000 | 72. 72. | 125. | 0. | 0. 0. | 0. |
| 4000 8000 | 72. | 123. 129. | 0. | | 0. |
| | | | 0. | 0. | 0. |
| 16000 | 72. | 131. | 0. | 0. | 0. |

VG=.50 FUEL MODE=WF FUEL=STD POWER SETTING 50 PEADING NO. 2117

| | | MICROPHON | F POSITION | | |
|------------|------|-----------|------------|-----|----|
| 1/3 OCT FR | FQ 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 122. | 0. | 0. | 0. |
| 63 | 68. | 120. | 0. | 0. | 0. |
| 80 | 68. | 119. | 0. | 0. | 0. |
| 100 | 68. | 116. | 0. | 0. | 0. |
| 125 | 68. | 118. | 0. | 0. | 0. |
| 160 | 67. | 119. | 0. | 0. | 0. |
| 200 | 68. | 117. | 0. | 0. | 0. |
| 250 | 68. | 116. | 0. | 0. | 0. |
| 315 | 68. | 113. | 0. | 0. | 0. |
| 400 | 67. | 113. | 0. | 0. | 0. |
| 500 | 67. | 115. | 0. | 0. | 9. |
| 630 | 68. | 116. | 0. | 0. | 0. |
| 800 | 68. | 115. | 0. | 0. | 0. |
| 1000 | 68. | 116. | 0. | 0. | 0. |
| 1250 | 68. | 117. | 0. | 0. | ာ• |
| 1600 | 67. | 119. | 0. | າ• | 0. |
| 2000 | 67. | 123. | 0. | 0 • | 0. |
| 2500 | 67. | 128. | 0. | 0. | 0. |
| 3150 | 67. | 123. | 0. | 0. | 0. |
| 4000 | 68. | 126. | 0. | 0. | 0. |
| 5000 | 67. | 126. | 0. | 0. | 0. |
| 6300 | 67. | 123. | 0. | 0. | 0. |
| 8000 | 67. | 120. | 0. | 0. | 0. |
| 10000 | 68. | 123. | 0. | 0 • | 0. |
| 12500 | 68. | 113. | 0. | 0. | 0. |
| 16000 | 68. | 109. | 0. | 0. | 0. |
| 20000 | 68. | 102. | C. | 0. | 0. |
| OCTAVE FR | EQ | | | | |
| 63 | 73. | 125. | 0. | 0. | 0. |
| l 25 | 72. | 123. | 0. | 0. | 0. |
| 250 | 73. | 120. | 0. | 0. | 0. |
| 500 | 72. | 120. | 0. | 0. | 0. |
| 1000 | 73. | 121. | 0. | 0. | 0. |
| 2000 | 72. | 130. | 0. | 0. | 0. |
| 4000 | 72. | 130. | 0. | 0. | 0. |
| 8000 | 72. | 127. | 0. | 0. | 0. |
| 16000 | 73. | 115. | 0. | 0. | 0. |

| | | MICROPHONE | POSITION | | |
|--------------|------------|------------|-----------|-----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 119. | 0. | 0. | 0. |
| 63 | 67. | 119. | 0. | 0. | 0. |
| 80 | 68. | 116. | 3. | 0. | 0. |
| 100 | 67. | 112. | 0. | n. | 0. |
| 125 | 68. | 112. | 0. | 0. | 0. |
| 160 | 67. | i10. | 0. | 0. | 0. |
| 200 | 68. | 112. | 0. | 0. | 0. |
| 250 | 67. | 113. | 0. | 0. | 0. |
| 315 | 68. | 113. | 0. | 0. | 0. |
| 400 | 67. | 118. | 0. | 0. | 0. |
| 500 | 67. | 115. | 0. | 0. | 0. |
| 630 | 68. | 117. | 0. | 0. | 0. |
| 822 | 68. | 119. | 0. | 0. | 0. |
| 1000 | 67. | 118. | 0. | 0. | 0. |
| 1250 | 67. | 119. | 0. | 0. | 0. |
| 1600 | 68. | 120. | 0. | 0. | 0. |
| 2000 | 67. | 119. | 0. | 0. | 0. |
| 2500 | 67. | 118. | 0. | 0. | 0. |
| 3150 | 67. | 119. | 0. | 0. | 0. |
| 4000 | 6R. | 119. | 0. | 0. | 0. |
| 5000 | 67. | 118. | 0. | 0. | 0. |
| 6300 | 67. | 122• | 0. | 0. | 0. |
| 9000 | 67. | 124. | 0. | 0. | 0. |
| 10000 | 67. | 124. | 0. | 0. | 0. |
| 1 2500 | 68. | 126. | 0. | 0. | 0• |
| 16000 | 68. | 127. | 0. | 0. | 0. |
| 20000 | 68. | 125. | 0. | 0 • | 0. |
| CCTAVE FREQ | | | | | |
| 63 | 73. | 123. | 0. | 0. | 0. |
| 125 | 72. | 116. | 0. | 0. | 0. |
| 250 | 72. | 117. | 0. | 0. | 0. |
| 500 | 72. | 122. | 0. | 0. | 0. |
| 1000 | 72. | 123. | 0. | 0. | 0. |
| 2000 | 72. | 124. | 0. | 0. | 0. |
| 4000 | 72. | 123. | 0. | 0. | 0. |
| 8000 | 72. | 128. | 0. | 0. | 0. |
| 16000 | 73. | 131. | 0. | 0. | 0. |

VG=.60 FUEL MODE=WF FUFL=STD POWER SETTING 50 READING NO. 2119

| | | MICROPHONE | POSETTON | | |
|-----------|-------|------------|----------|----|----|
| 1/3 OCT F | REQ 1 | 2 | 3 | 4 | 5 |
| 50 | 68. | 121. | 0. | 0. | 0. |
| 63 | 68. | 120. | 0. | 0. | 0. |
| 80 | 68. | 117. | 0. | 0. | 0. |
| 100 | 68. | 115. | 0. | 0. | 0. |
| 125 | 67. | 116. | 0. | 0. | 0. |
| 160 | 67. | 116. | 0. | 0. | 0. |
| 200 | 67. | 115. | 0. | 0. | 0. |
| 250 | 67. | 115. | 0. | 0. | 0. |
| 315 | 68. | 113. | 0. | 0. | 0. |
| 400 | 67. | 120. | 0. | 0. | 0. |
| 500 | 68. | 116. | 0. | 0. | 0. |
| 630 | 68. | 116. | 0. | 0. | 0. |
| 800 | 68. | 115. | 0. | 0. | 0. |
| 1000 | 68. | 115. | 0. | 0. | 0. |
| 1250 | 67. | 117. | 0. | 0• | 0. |
| 1600 | 67. | 118. | 0. | 0. | 0. |
| 2000 | 67. | 120. | 0. | 0. | 0. |
| 2500 | 67. | 126. | 0. | 0. | 0. |
| 3150 | 68. | 124. | 0. | 0. | 0. |
| 4000 | 68. | 127. | 0. | 0. | 0. |
| 5000 | 68. | 128. | 0. | 0. | 0. |
| 6300 | 67. | 124. | 0. | 0. | 0. |
| 8000 | 67. | 120. | 0. | 0. | 0. |
| 10000 | 67. | 123. | 0. | 0. | 0. |
| 12500 | 68. | 113. | 0. | 0. | 0. |
| 16000 | 67. | 108. | 0. | 0. | 0. |
| 20000 | 68. | 101. | 0. | 0. | 0. |
| OCTAVE F | PEO | | | | |
| 63 | 73. | 124. | 0. | 0. | 0. |
| 125 | 72. | 120. | 0. | 0. | 0. |
| 250 | 72. | 119. | 0. | 0. | 0. |
| 500 | 72. | 123. | 0. | 0. | 0. |
| 1000 | 72. | 121. | 0. | 0. | 0. |
| 2000 | 72. | 127. | 0. | 0. | 0. |
| 4000 | 73. | 131. | n. | 0. | 0. |
| 8000 | 72. | 127. | 0. | 0. | 0. |
| 16000 | 72. | 114. | 0. | 0. | 0. |
| | | | | | |

| | | MICRUPHO | NE POSITION | | |
|--------------|-----|----------|-------------|-----|----|
| 1/3 CCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 121. | 0. | 0. | 0. |
| 63 | 69. | 119. | 0. | 0. | 0. |
| 80 | 68. | 115. | 0. | 0 • | 0. |
| 100 | 68. | 112. | C . | 0. | 0. |
| 125 | 68. | 112. | 0. | 0. | 0. |
| 160 | 67. | 111. | 0. | 0. | 0. |
| 200 | 68. | 112. | 0. | 0. | 0. |
| 250 | 68. | 114. | 0. | 0. | 0. |
| 315 | 67. | 113. | 0. | 0. | O. |
| 400 | 67. | 120. | 0. | 0. | 0. |
| 500 | 67. | 121. | 0. | 0. | 0. |
| 630 | 68. | 117. | 0• | 0. | 0. |
| 800 | 68. | 121. | 0. | 0. | 0. |
| 1000 | 68. | 120. | 0. | 0. | 0. |
| 1250 | 68. | 121. | 0. | 0. | 0. |
| 1600 | 68. | 121. | 0. | 0. | ე. |
| 2000 | 67. | 121. | 0. | 0. | 0. |
| 2500 | 67. | 118. | 0. | 0. | 0. |
| 3150 | 68. | 119. | 0. | · · | 0. |
| 4000 | 68. | 119. | 0. | 0. | 0. |
| 5000 | 67. | 119. | 0. | 0. | 0. |
| 63.00 | 67. | 121. | 0. | 0. | 0. |
| 8000 | 68. | 124. | 0. | 0. | n. |
| 10000 | 68. | 125. | 0. | 0. | 0. |
| 12500 | 68. | 126. | 0. | 0. | 0. |
| 16000 | 67. | 127. | 0. | 0. | 0. |
| 20000 | 68. | 125. | 0. | 0. | 0. |
| CCTAVE FREQ | | | | | |
| 63 | 73. | 124. | 0. | 0. | 0. |
| 125 | 72. | 116. | 0. | 0. | 0. |
| 250 | 72. | 118. | 0. | 0. | 0. |
| 500 | 72. | 124. | 0• | 0 • | 0. |
| 1000 | 73. | 125. | 0. | 0. | 0. |
| 2700 | 72. | 125. | 0. | 0. | 0. |
| 4000 | 72. | 124. | 0. | 0. | 0. |
| 8000 | 72. | 128. | 0. | 0. | 0. |
| 16000 | 72. | 131. | 0. | 0. | 0. |

| | | MICROPHONE | POSITION | | |
|--------------|-----|------------|----------|-----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 120. | 0. | 0. | n. |
| 63 | 68. | 119. | 0. | 0. | 0. |
| 80 | 68. | 116. | 0. | 0. | n. |
| 100 | 68. | 115. | 0. | 0. | 0. |
| 125 | 67. | 117. | 0. | 0. | 0. |
| 160 | 68. | 116. | 0. | 0. | 0. |
| 200 | 68. | 115. | 0. | 0. | 0. |
| 250 | 68. | 114. | 0. | 0. | 0. |
| 315 | 68. | 113. | 0. | 0. | 0. |
| 400 | 67. | 123. | 0. | 0. | 0. |
| 500 | 67. | 124. | 0. | 0. | 0. |
| 630 | 68. | 116. | 0. | 0. | 0. |
| 800 | 68. | 115. | 0. | 0. | 0. |
| 1000 | 68. | 115. | 0. | 0. | 0. |
| 1250 | 67. | 117. | 0. | 0. | 0. |
| 1600 | 67. | 118. | 0. | 0. | 0. |
| 2000 | 68. | 120. | 0. | 0. | 0. |
| 2500 | 67. | 127. | 0. | 0. | 0. |
| 31 50 | 68. | 126. | 0• | 0. | 0. |
| 4000 | 68. | 127. | 0. | 0. | 0. |
| 5000 | 67. | 128. | 0. | 0. | 0. |
| 6300 | 68. | 124. | 0. | 0 • | 0. |
| 8000 | 67. | 120. | 0. | 0. | 0. |
| 10000 | 68. | 122. | 0. | 0 • | 0. |
| 1 2500 | 68- | 113. | 0. | 0. | 0. |
| 16000 | 68. | 109. | 0. | 0. | 0. |
| 2 0000 | 68. | 101. | 0. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 123. | 0. | 0. | 0. |
| 125 | 72. | 121. | 0. | 0. | 0. |
| 250 | 73. | 119. | 0. | 0. | 0. |
| 500 | 72. | 127. | 0. | 0. | 0. |
| 1000 | 72. | 121. | 0. | 0. | 0. |
| 2000 | 72. | 128. | 0. | 0. | 0. |
| 4000 | 72. | 132. | 0. | 0. | 0. |
| 8000 | 72. | 127. | 0. | 0. | 0. |
| 16000 | 73. | 115. | 0. | 0. | 0. |

| | | MICROPHONE | POSITION | | |
|--------------|-----|------------|----------|-------|-----------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 68. | 120. | 0. | 0. | 0. |
| 63 | 67. | 119. | 0. | 0. | 0. |
| 80 | 67. | 115. | 0. | 0. | 0. |
| 100 | 68. | 112. | 0. | 0. | 0. |
| 125 | 67. | 113. | 0. | 0. | 0. |
| 160 | 67. | 111. | 0. | 0 • | 0. |
| 200 | 68. | 112. | 0. | 0. | 0. |
| 250 | 68. | 113. | 0. | 0. | 0. |
| 315 | 68. | 112. | 0. | 0. | 7. |
| 400 | 67. | 115. | 0. | 0. | 0. |
| 500 | 68. | 118. | 0. | 0. | 0. |
| 630 | 68. | 117. | 0. | 0. | 0. |
| 900 | 68. | 120. | 0. | 0 • | 0. |
| 1000 | 68. | 121. | 0. | 0. | 0. |
| 1250 | 67. | 120. | 0. | 0. | 0. |
| 1600 | 67. | 120. | 0. | 0. | 0. |
| 2000 | 67. | 121. | 0. | 0. | 0. |
| 2500 | 67. | 119. | 0. | 0. | 0. |
| 3150 | 67. | 120. | 0. | 0. | 0. |
| 4000 | 68. | 119. | 0. | 0. | 0. |
| 5000 | 67. | 118. | 0. | 0. | 0. |
| 6300 | 67. | 122. | 0. | 0 • | 0. |
| 8000 | 67. | 124. | 0. | 0. | 0. |
| 10000 | 68. | 125. | 0. | 0 • | 0. |
| 12500 | 68. | 126. | 0. | . 0 • | 0. |
| 16000 | 67. | 127. | 0. | 0 • | 0. |
| 20000 | 68. | 125. | 0. | 0. | 0. |
| OCTAVE FREQ | | | | _ | |
| 63 | 72. | 123. | 0. | 0. | 0. |
| 125 | 72. | 117. | 0. | 0. | 0. |
| 250 | 73. | 117. | 0. | 0. | 0. |
| 500 | 72. | 127. | 0. | 0. | 0. |
| 1000 | 72. | 125. | 0. | 0. | 0. |
| 2000 | 72. | 125. | 0. | 0. | 0. |
| 4000 | 72. | 124. | 0. | 0. | 0. |
| 8000 | 72. | 129. | 0. | 0. | 0. |
| 16000 | 72. | 131. | 0. | 0. | 0. |

| | | MICROPHO | NE POSITION | | |
|-------------|-----|----------|-------------|-----|----|
| 1/3 CCT FRE | 0 1 | 2 | 3 | 4 | 5 |
| 50 | 68. | 120. | 0. | 0. | 0. |
| 63 | 67. | 118. | 0. | 0. | 0. |
| 80 | 68. | 115. | 0. | 0. | 0. |
| 100 | 68. | 115. | 0. | 0. | 0. |
| 125 | 67. | 117. | 0. | 0. | 0. |
| 160 | 67. | 116. | 0. | 0. | 0. |
| 200 | 68. | 115. | 0. | 0. | 0. |
| 250 | 67. | 115. | 0. | 0. | 0. |
| 315 | 68. | 114. | 0. | 0. | 0. |
| 400 | 67. | 122. | 0. | 0. | 0. |
| 500 | 67. | 126. | 0. | 0. | 0. |
| 630 | 69. | 116. | 0. | 0. | 0. |
| 800 | 67. | 115. | 0. | 0. | 0. |
| 1000 | 68. | 116. | 0. | 0. | 0. |
| 1250 | 67. | 117. | 0. | 0. | 0. |
| 1600 | 68. | 119. | 0. | 0. | 0. |
| 2000 | 67. | 122. | 0. | 0. | 0. |
| 2500 | 67. | 129. | 0. | 0 • | 0. |
| 3150 | 67. | 126. | 0. | n. | 0. |
| 4000 | 68. | 128. | 0. | 0. | 0. |
| 5000 | 67. | 128. | 0. | 0. | 0. |
| 6300 | 67. | 125. | 0. | 0 • | 0. |
| 0008 | 67. | 121. | 0. | 0. | 0. |
| 10000 | 67. | 123. | 0. | 0. | 0. |
| 12500 | 68. | 113. | 0. | 0. | 0. |
| 16000 | 67. | 109. | 0. | 0. | 0. |
| 20000 | 68. | 102. | 0. | 0. | 0. |
| | - | | | | |
| OCTAVE FRE | | 100 | • | • | ^ |
| 63 | 72. | 123. | 0. | 0. | 0. |
| 125 | 72• | 121. | 0. | 0. | 0. |
| 250 | 72. | 119. | 0. | 0. | 0. |
| 500 | 73. | 128. | 0. | 0. | 0. |
| 1000 | 72. | 121. | 0. | 0. | 0. |
| 2000 | 72. | 130. | 0. | 0. | 0. |
| 40.00 | 72. | 132. | 0. | 0. | 0. |
| 8200 | 72. | 128. | 0. | 0. | 0. |
| 16000 | 72. | 115. | 0. | 0. | 0. |

VG=.80 FUEL MODE=AA FUEL=STD POWER SETTING 50 READING NO. 2125

| | | MICROPHONE | POSITION | | |
|--------------|-----|------------|----------|-----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | .5 |
| 50 | 69. | 120. | 0. | 0. | 0. |
| 63 | 68. | 119. | 0. | 0. | 0. |
| 80 | 68. | 116. | 0. | 0. | 0. |
| 100 | 68. | 112. | 0. | 0. | 0. |
| 125 | 68. | 112. | 0. | 0. | 0. |
| 160 | 68. | 111. | 0. | 0. | 0. |
| 200 | 68. | 112. | 0. | 0. | 0. |
| 250 | 67. | 113. | 0. | 0. | 0. |
| 315 | 67. | 117. | 0. | 0. | 0. |
| 400 | 67. | 113. | 0. | 0. | 0. |
| 500 | 67. | 117. | 0. | 0. | 0. |
| 630 | 68. | 116. | 0. | 0. | 0. |
| 800 | 68. | 118. | 0. | 0. | 0. |
| 1000 | 68. | 120. | 0. | 0. | 0. |
| 1250 | 67. | 121. | 0. | 0. | 0. |
| 1600 | 67. | 119. | 0. | 0. | 0. |
| 2000 | 67. | 120. | 0. | 0. | • |
| 2500 | 67. | 118. | 0. | 0. | 0. |
| 3150 | 68. | 120. | 0. | 0. | 0. |
| 4000 | 68. | 119. | 0• | 0. | 0. |
| 5000 | 67. | 118. | C. | 0. | 0. |
| 6300 | 67. | 122. | 0. | 0. | 0. |
| 8000 | 67. | 124. | 0. | 0. | 0. |
| 10700 | 68. | 125. | 0. | 0. | 0. |
| 12500 | 67. | 126. | 0. | 0. | 0. |
| 16000 | 68. | 127. | 0. | 0. | ე• |
| 20000 | 68. | 125. | 0. | 0. | 0. |
| CCTAVE FREQ | | | | | |
| 63 | 73. | 123. | 0. | 0. | 0. |
| 125 | 73. | 116. | 0. | 0. | 0. |
| 250 | 72. | 117. | 0. | 0. | 0. |
| 500 | 72. | 120. | 0. | 0. | 0. |
| 1000 | 72. | 125. | 0. | 0. | 0. |
| 2000 | 72. | 124. | 0. | 0. | 0. |
| 4000 | 72. | 124. | 0. | 0 • | 0. |
| 8000 | 72. | 129. | 0. | 0. | 0. |
| 16000 | 77. | 131. | 0. | 0. | 0. |

VG=.90 FUFL MODE=AA FUFL=STD POWER SETTING 50 READING NO. 2126

| | | MICROPHO | NE POSITION | | |
|--------------|------------|----------|-------------|-----|-----|
| 1/3 OUT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 119. | 0. | 0. | 0. |
| 63 | ⇔8• | 116. | 0. | 0. | 0. |
| 80 | 67. | 115. | 0. | 0. | 0. |
| 100 | 50, | 114. | 0. | 0. | 0. |
| 125 | 67. | 116. | 0. | 0. | 0. |
| 160 | 67. | 116. | 0. | 0. | 0. |
| 200 | 67. | 115. | 0. | 0. | 0. |
| 250 | 68. | 114. | 0. | 0. | 0. |
| 315 | 68. | 113. | 0. | 0. | 0. |
| 400 | 67. | 115. | 0. | 0. | 0. |
| 500 | 67. | 122. | 0. | 0. | 0. |
| 630 | 68. | 115. | 0. | 0. | 0. |
| 900 | 68. | 115. | 0. | 0. | ο. |
| 1000 | 68. | 115. | 0. | 0. | 0. |
| 1250 | 67. | 118. | 0. | 0. | 0. |
| 1600 | 67. | 118. | 0. | 0. | 0. |
| 2000 | 67. | 121. | 0. | 0. | 0. |
| 2500 | 68. | 131. | 0. | 0. | 0. |
| 31 50 | 68. | 126. | 0. | 0. | 0. |
| 4000 | 68. | 127. | 0. | 0. | 0. |
| 5000 | 67. | 128. | 0- | 0. | 0. |
| 6300 | 68. | 126. | 0• | 0. | ე. |
| 8000 | 67. | 121. | 0. | 0. | 0. |
| 10000 | 67. | 123. | 0. | 0 - | 0. |
| 12500 | 67. | 114. | 0. | 0. | 0. |
| 16000 | 67. | 109. | 0. | 0 • | 0. |
| 20000 | 68. | 102. | 0. | 0. | 0. |
| CCTAVE FRED | | | | | |
| 63 | 73. | 122. | 0. | 0. | 0. |
| 125 | 73. | 120. | 0. | 0. | 0. |
| 250 | 72. | 119. | 0. | 0. | 0. |
| 500 | 72. | 123. | 0. | 0. | 0. |
| 1000 | 72. | 121. | 0. | 0. | (). |
| 2000 | 72. | 132. | 0. | 0. | 0. |
| 4000 | 72. | 132. | 0. | 0. | 0. |
| 8000 | 72. | 129. | 0. | 0. | 0. |
| 16000 | 72. | 115. | 0. | 0. | 0. |

| | | MICROPHO | NE POSTTION | | |
|--------------|------|----------|-------------|-----|-----------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 70. | 118. | 0. | 0. | 0. |
| 63 | 68. | 115. | 0. | 0. | 0. |
| 80 | 69. | 118. | 0. | 0. | 0. |
| 100 | 69. | 121. | n. | 0. | 0. |
| 125 | 68. | 118. | 0. | 0. | 0. |
| 160 | 6 P. | 119. | 0. | 0. | 0. |
| 200 | 67. | 113. | 0. | 0. | 0. |
| 250 | 67. | 112. | 0. | 0. | 0. |
| 315 | 67. | 110. | 0. | 0. | 0. |
| 400 | 67. | 110. | n. | 0. | n. |
| 500 | 67. | 111. | 0. | 0. | 0. |
| 630 | 68. | 116. | 0. | 0. | 0. |
| 800 | 68. | 115. | 0. | 0. | 0. |
| 1000 | 68. | 116. | 0. | 0. | 0. |
| 1250 | 68. | 118. | 0. | 0. | 0. |
| 1600 | 67. | 118. | 0. | 0. | C. |
| 2000 | 67. | 118. | 0. | 0. | 0,• |
| 2500 | 67. | 115. | 0• | 0. | 0. |
| 3150 | 67. | 119. | 0. | 0. | 0. |
| 400 0 | 68. | 118. | 0. | 0. | 0. |
| 5000 | 67. | 118. | 0. | 0. | 0. |
| 6300 | 68. | 119. | 0. | 0. | 0. |
| 8000 | 67. | 121. | n. | 0. | 0. |
| 10000 | 68. | 122. | 0. | 0. | 0. |
| 12500 | 67. | 124. | 0. | 0. | 0. |
| 16000 | 67. | 126. | 0. | 0. | 0. |
| 20000 | 68. | 125. | 0. | 0. | 0• |
| OCTAVE FREQ | | | | | |
| 63 | 74. | 172. | 0. | 0. | 0. |
| 1 25 | 73. | 124. | 0. | 0. | 0. |
| 250 | 72. | 117. | 0. | 0 • | 0. |
| 500 | 72. | 118. | 0. | 0 • | 0. |
| 1000 | 73. | 121. | 0. | 0. | 0. |
| 2000 | 72. | 127. | 0. | 0. | 0. |
| 4000 | 72. | 123. | 0. | 0. | 0. |
| 8000 | 72. | 126. | 0. | 0. | 0. |
| 16700 | 72. | 130. | 0. | 0. | 0. |

VG=.60 FUEL MODE=WF FUEL=STD POWER SETTING 60 READING NO. 2128

| | | MICROPHO | NE POSITION | | |
|--------------|-----|----------|-------------|-----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 119. | 0. | 0. | 0. |
| 63 | 68. | 119. | 0. | 0. | 0. |
| 80 | 68. | 116. | 0. | 0 • | 0. |
| 100 | 68. | 118. | 0. | 0. | 0. |
| 125 | 68. | 118. | 0. | 0. | 0. |
| 160 | 68. | 118. | 0. | 0. | 0. |
| 200 | 67. | 118. | 0. | 0. | 0. |
| 250 | 68. | 117. | 0. | 0. | 0. |
| 315 | 68. | 116. | 0. | 0. | 0. |
| 490 | 67. | 115. | 0. | 0. | 0. |
| 500 | 67. | 115. | 0. | 0. | 0. |
| 630 | 68. | 117. | C • | 0. | 0. |
| 800 | 68. | 117. | 0. | n. | n. |
| 1000 | 68. | 117. | 0. | 0. | 0. |
| 1250 | 67. | 119. | 0. | 0. | 0. |
| 1600 | 67. | 118. | 0. | 0. | 0. |
| 2000 | 67. | 118. | 0. | 0. | r. |
| 2500 | 67. | 119. | 0. | 0. | 0. |
| 3150 | 68. | 120. | 0. | 0 • | 0. |
| 4000 | 68. | 124. | 0. | 0. | 0. |
| 5000 | 68. | 123. | 0. | 0• | 0. |
| 6300 | 67. | 123. | 0. | 0. | 0. |
| 8000 | 67. | 120. | 0. | 0 • | C. |
| 10000 | 67. | 122. | 0. | 0. | 0. |
| 12500 | 67. | 118. | 0. | 0. | 0. |
| 16000 | 67. | 115. | 0. | 0. | 0. |
| 20000 | 68. | 110. | 0. | 0. | n. |
| CCTAVE FREQ | | | | | |
| 63 | 73. | 123. | 0. | 0. | 0. |
| 125 | 73. | 123. | n. | 0 • | 0. |
| 250 | 72. | 122. | 0. | 0. | 0. |
| 500 | 72. | 121. | 0. | 0. | 0. |
| 1000 | 72. | 123. | 0. | 0. | 0. |
| 2000 | 72. | 123. | 0. | 0. | 0. |
| 4000 | 73. | 127. | 0. | 0. | 0. |
| 8000 | 72. | 127. | 0. | 0. | 0. |
| 16000 | 72. | 120. | 0. | 0. | 0. |

VG=.70 FUEL MODE=WF FUEL=STD POWER SETTING 60 READING NO. 2129

| | | MICROPHO | ONE POSITION | | |
|--------------|-----|----------|--------------|-----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 68. | 119. | 0. | 0. | 0. |
| 63 | 67. | 117. | 0. | n. | 0. |
| 80 | 67. | 119. | 0. | n. | 0. |
| 100 | 68. | 120. | 0. | 0. | C. |
| 125 | 68. | 118. | 0. | 0. | 0. |
| 160 | 68. | 118. | 0. | 0. | 0. |
| 200 | 67. | 112. | 0. | 0 • | 0. |
| 250 | 67. | 112. | 0. | 0. | 0. |
| 315 | 67. | 110. | 0. | 0. | 0. |
| 400 | 67. | 109. | 0. | 0. | 0. |
| 500 | 67. | 110. | 0. | 0. | Λ. |
| 630 | 68. | 114. | 0. | 0. | 0. |
| 800 | 68. | 113. | 0. | 0. | 0. |
| 1000 | 6A. | 115. | 0. | 0. | 0. |
| 1250 | 67. | 113. | 0. | 0. | 0. |
| 1600 | 67. | 116. | 0. | 0. | 0. |
| 2000 | 67. | 119. | 0. | 0. | 0. |
| 2500 | 67. | 115. | 0. | 0. | 0. |
| 3150 | 67. | 119. | 0. | 0. | 0. |
| 4000 | 68. | 119. | 0. | 0. | 0. |
| 5000 | 67. | 118. | 0. | n. | 0. |
| 6300 | 68. | 119. | 0. | 0. | 0. |
| 8000 | 67. | 120. | 0. | 0. | 0. |
| 10000 | 67. | 122. | 0. | 0. | 0. |
| 12500 | 68. | 124. | 0. | 0. | 0. |
| 16000 | 67. | 125. | 0. | 0 • | n. |
| 20000 | 68. | 124. | 0. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 72. | 123. | 0. | 0. | 0. |
| 125 | 73. | 124. | 0. | 0. | 0. |
| 250 | 72. | 116. | 0. | 0. | 0. |
| 500 | 72. | 116. | 0. | 0. | 0. |
| 1000 | 72. | 119. | 0. | 0 • | 0. |
| 2000 | 72. | 127. | 0. | 0. | 0. |
| 4000 | 77. | 123. | 0. | 0. | 0. |
| 8000 | 72. | 125. | 0. | 0. | 0. |
| 16000 | 72. | 129. | 0. | 0. | 0. |

| | | MICROPHO | NE POSITION | | |
|--------------|------------|----------|-------------|------------|-----------|
| 1/3 CCT FREQ | 1 | ? | 3 | 4 | 5 |
| 50 | 68. | 123. | 0. | 0. | 0. |
| 63 | 6R. | 123. | 0. | O. | 0• |
| ዓ ን | 67. | 119. | 0. | 0. | n. |
| 100 | 69. | 118. | 0. | 0. | 0. |
| 125 | 68. | 122. | 0. | 0. | 0. |
| 160 | 68. | 123. | 0. | 0. | 0. |
| 200 | 68. | 118. | 0. | 0. | 0. |
| 250 | 67. | 116. | 0. | 0. | 0. |
| 315 | 6R. | 116. | 0. | 0. | 0. |
| 400 | 67. | 115. | 0. | 0. | 0. |
| 500 | 67. | 119. | 0. | 0. | 0. |
| 630 | 68. | 120. | 0. | 0 • | 0. |
| 870 | 67. | 118. | 0. | 0. | n. |
| 1000 | 67. | 118. | 0. | 0. | 0. |
| 1250 | 68. | 119. | 0. | Λ. | 7. |
| 1600 | 67. | 11º. | 0. | 0. | 0. |
| 2000 | 68. | 117. | 0. | 0. | 0. |
| 2500 | 67. | 119. | 0. | ^ • | O. |
| 3150 | 57. | 119. | 0. | 0. | 0. |
| 4000 | 68. | 124. | 0. | 0. | 0. |
| 5000 | 67. | 123. | 0. | 0. | О. |
| 6300 | 68. | 123. | 0. | 0. | 0. |
| 8000 | 67. | 120. | 0. | O • | 0. |
| 10000 | 6A. | 123. | 0. | 0. | 0. |
| 12500 | 67. | 117. | . | 0. | 0. |
| 16000 | 67. | 114. | 0. | n. | 0. |
| 20000 | 68. | 110. | 0. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 72. | 127. | 0. | 0. | 0. |
| 125 | 73. | 126. | ٠. | 0. | 0. |
| 250 | 72. | 122. | 0. | 0. | 0. |
| 500 | 72. | 123. | 0. | 0. | 0. |
| 1000 | 77. | 123. | 0. | 0. | 0. |
| 2000 | 72. | 122. | 0. | 0. | 0. |
| 4000 | 72. | 127. | 0. | 0. | 0. |
| 2,000 | 72. | 127. | 0. | 0. | 0. |
| 16000 | 72. | 119. | 0. | 0. | 0. |

| | | MICROPHONE | POSTTION | | |
|--------------|------|------------|------------|------------|------------|
| 1/3 OCT FPEQ | 1 | ? | 3 | 4 | 5 |
| 50 | 69. | 120. | n. | 0. | C. |
| 63 | 67. | 117. | 0. | 0. | 0. |
| 90 | 68. | 119. | 0. | 0. | ٠. |
| 100 | 68. | 120. | 0. | 0. | Ο. |
| 125 | 67. | 119. | 0. | 0. | 0. |
| 160 | 68. | 119. | n. | 0. | ٠. |
| 200 | 68. | 113. | 0. | 0 • | 0• |
| 250 | 68. | 112. | 0. | 0. | ? • |
| 315 | 68. | 110. | 0. | 0. | O. |
| 400 | 67. | 109. | 0• | 0. | 0. |
| 500 | 67. | 109. | 0. | 0. | 0. |
| 630 | 69. | 114. | 0. | 0. | C • |
| 800 | 68. | 113. | 0. | 0. | 0. |
| 1000 | 68. | 114. | 0. | 0. | ο. |
| 1250 | 67. | 113. | C. | ე• | 0. |
| 1600 | 67. | 116. | 0. | 0. | າ. |
| 2000 | 67. | 119. | O. | 0. | 0. |
| 2500 | 67. | 115. | 0. | 0. | C • |
| 3150 | 68. | 119. | 0. | 0. | 0. |
| 4000 | 68. | 119. | 0. | 0. | າ• |
| 5000 | 67. | 118. | 0. | 0. | 0. |
| 6300 | 67. | 119. | 0. | 0. | 0. |
| 8200 | 67. | 120. | 0. | n . | 0. |
| 10000 | 67. | 121. | ^ • | 0. | Λ. |
| 12500 | 67. | 124. | 0. | 0. | 0. |
| 16000 | 66. | 125. | 0• | 0. | 0• |
| 20100 | 6 P. | 124. | C. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 124. | 0. | 0. | 0. |
| 125 | 72. | 124. | 0. | 0. | 0. |
| 250 | 73. | 117. | 0. | 0. | 0. |
| 500 | 73. | 116. | 0. | 0. | 0. |
| 1000 | 72. | 118. | 0. | 0. | 0. |
| 2000 | 72. | 122. | 0. | 0. | 0. |
| 4000 | 72. | 123. | 0. | 0. | 0. |
| 8000 | 72. | 125. | 0. | 0. | 0. |
| 16000 | 72. | 129. | 0. | 0. | 0. |

VG=.80 FUEL MODE=AA FUFL=STD POWER SETTING 60 RFADING NO. 2132

| | | MICROPHONE | POSITION | | |
|--------------|-----|------------|----------|----|----|
| 1/3 OCT FREG | 1 | 2 | 3 | 4 | 5 |
| 50 | 68. | 122. | 0. | 0. | 0. |
| 63 | 67. | 121. | 0. | 0. | 0. |
| 80 | 68. | 120. | 0. | 0. | 0. |
| 100 | 68. | 119. | 0. | 0. | 0. |
| 125 | 68. | 121. | 0. | 0. | 0. |
| 160 | 68. | 125. | 0. | 0. | 0. |
| 500 | 68. | 118. | 0. | 0. | 0. |
| 250 | 68. | 117. | 0. | 0. | 0. |
| 315 | 68. | 116. | 0. | 0. | 0. |
| 400 | 67. | 116. | 0. | 0. | 0. |
| 500 | 67. | 120. | 0. | 0. | 0. |
| 630 | 68. | 120. | 0. | 0. | 0. |
| 800 | 68. | 118. | 0. | 0. | 0. |
| 1000 | 67. | 117. | 0. | 0. | 0. |
| 1250 | 67. | 119. | 0. | 0. | 0. |
| 1600 | 67. | 118. | 0. | 0. | 0. |
| 2000 | 67. | 117. | 0. | 0. | 0. |
| 2500 | 67. | 118. | 0. | 0. | 0. |
| 3150 | 67. | 120. | 0. | 0. | 0. |
| 4000 | 68. | 174. | 0. | 0. | 0. |
| 5000 | 67. | 122. | 0. | 0. | 0. |
| 6300 | 68. | 122. | 0. | 0. | 0. |
| 8000 | 67. | 120. | 0. | 0. | 0. |
| 10000 | 68. | 123. | 0. | 0. | 0. |
| 12500 | 68. | 118. | 0. | 0. | 0. |
| 16000 | 67. | 114. | 0. | 0. | 0. |
| 20000 | 68. | 110. | 0. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 72. | 126. | 0. | 0. | 0. |
| 125 | 73. | 127. | 0. | 0. | 0. |
| 250 | 73. | 122. | 0. | 0. | 0. |
| 500 | 72. | 124. | 0. | 0. | 0. |
| 1000 | 72. | 123. | 0. | o. | 0. |
| 2000 | 72. | 122. | 0. | 0. | o. |
| 4000 | 72. | 127. | 0. | 0. | 0. |
| 8000 | 72. | 127. | 0. | 0. | 0. |
| 16000 | 72. | 120. | 0. | 0. | 0. |

| | | MICROPHO | NE POSITION | | |
|--------------|-----|----------|-------------|-----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 68. | 119. | 0. | 0. | 0. |
| 63 | 68. | 117. | 0. | 0. | 0. |
| 80 | 67. | 120. | 0. | 0. | 0. |
| 100 | 68. | 119. | 0. | 0. | 0. |
| 125 | 68. | 119. | 0. | 0. | 0. |
| 160 | 68. | 118. | 0. | 0. | 0. |
| 200 | 68. | 112. | 0. | 0. | 0. |
| 250 | 68. | 112. | 0. | 0. | 0. |
| 315 | 68. | 111. | 0. | 0. | 0. |
| 400 | 67. | 108. | 0. | 0. | 0. |
| 500 | 67. | 110. | 0. | 0. | 0. |
| 630 | 68• | 114. | 0. | 0. | 0. |
| 800 | 68. | 113. | 0. | 0. | 0. |
| 1000 | 68. | 114. | 0. | 0. | 0. |
| 1250 | 67. | 113. | 0. | 0. | O. |
| 1600 | 67. | 115. | 0. | 0. | 0. |
| 2000 | 67. | 119. | 0. | 0. | 0. |
| 2500 | 67. | 115. | 0. | 0. | 0. |
| 3150 | 68. | 119- | 0. | 0 • | 0. |
| 4000 | 68. | 118. | 0. | 0. | 0. |
| 5000 | 67. | 118. | 0. | 0. | 0. |
| 6300 | 68. | 119. | 0. | 0. | 0. |
| 8000 | 68. | 120. | 0. | 0. | 0. |
| 10000 | 68. | 121. | 0. | 0 • | 0. |
| 12500 | 67. | 124. | 0. | 0. | 0. |
| 16000 | 67. | 125. | 0. | 0 • | 0. |
| 20000 | 68. | 124. | 0. | 0. | 0. |
| CCTAVE FREQ | | | | | |
| 63 | 72. | 124. | 0. | 0. | 0. |
| 125 | 73. | 123. | 0. | 0. | 0. |
| 250 | 73. | 116. | 0. | 0. | Ö. |
| 500 | 72. | 116. | 0. | 0. | 0. |
| 1000 | 72. | 118. | 0. | 0. | 0. |
| 2000 | 72. | 122. | 0. | 0. | 0. |
| 4000 | 72. | 123. | 0. | 0. | 0. |
| 8000 | 73. | 125. | 0. | 0. | 0. |
| 16000 | 72. | 129. | 0. | 0. | 0. |

VG=.95 FUFL MODE=AA FUFL=STD POWER SETTING 60 READING NO. 2134

| | | MICROPHONE | PCSITICN | | |
|--------------|-----|------------|-----------|-----|-----------|
| 1/3 OCT FREQ | 1 | 2 | 2 | 4 | E |
| 50 | 68. | 123. | n. | n. | n. |
| 63 | 67. | 122. | 0. | 0. | 0. |
| 80 | 67. | 118. | 0. | 0. | 0. |
| 100 | 68. | 118. | 0. | 0. | 0. |
| 125 | 67. | 121. | 0. | 0. | 0. |
| 160 | 68. | 124. | 0. | 0. | 0. |
| 200 | 67. | 118. | 0. | 0. | 0. |
| 250 | 68. | 116. | 0. | 0. | 0. |
| 315 | 68. | 116. | 0. | C. | 0. |
| 400 | 67. | 114. | 0. | 0 • | 0. |
| 500 | 67. | 119. | 0. | 0. | 7. |
| 630 | 68. | 119. | 0. | 0. | ე. |
| 800 | 68. | 117. | 0. | 0. | C. |
| 1000 | 68. | 117. | 0. | 0. | 0. |
| 1250 | 68. | 119. | 0. | 0. | 0. |
| 1600 | 68. | 117. | n. | 0. | 0. |
| 2000 | 67. | 117. | 0. | 0. | 0. |
| 2500 | 67. | 118. | n. | 0. | ?. |
| 3150 | 67. | 119. | 0. | 0. | 0. |
| 4000 | 68. | 124. | n. | 0. | O. |
| 5000 | 67. | 123. | 0. | 0. | 0. |
| 6300 | 68. | 122. | 0. | 0. | 0. |
| 8000 | 67. | 119. | 0. | 0. | 0. |
| 10000 | 67. | 122. | n. | 0. | 0. |
| 12500 | 68. | 117. | 0. | 0. | 0• |
| 16000 | 68. | 114. | n. | 0. | 0. |
| 20000 | 68. | 109. | 0. | 0. | 0. |
| CCTAVE FREQ | | | | | |
| 63 | 72. | 126. | 0. | 0. | 0. |
| 125 | 72. | 126. | 0. | 0. | 0. |
| 250 | 72. | 122. | 0. | 0. | 7. |
| 500 | 72. | 123. | 0. | 0. | 0. |
| 1000 | 73. | 123. | 0. | 0. | 0. |
| 2000 | 72. | 122. | 0. | 0. | 0. |
| 4000 | 72. | 127. | 0. | 0. | 0. |
| 8000 | 72. | 126. | 0. | 0. | 0. |
| 16000 | 73. | 119. | 0. | 0. | 7. |

| | | MICROPHONE | POSITION | | |
|--------------|------|------------|----------|-----------|------------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | • |
| 50 | 69. | 120. | 0. | 0. | 0. |
| 63 | 69. | 118. | 0. | 0. | 0. |
| 90 | 67. | 121. | 0. | 0. | 0. |
| 100 | 68. | 120. | 0. | 0. | 0. |
| 125 | 68. | 119. | 0. | 0. | 0. |
| 160 | 67. | 118. | 0. | 0. | 0. |
| 200 | 67. | 112. | 0. | 0. | 0. |
| 250 | 67. | 112. | 0. | 0. | າ• |
| 315 | 68. | 111. | 0. | 0. | 0. |
| 400 | 67. | 109. | 0. | 0. | 0. |
| 500 | 67. | 110. | 0. | 0. | 0. |
| 630 | 6 A. | 114. | O. | 0. | n. |
| 900 | 68. | 113. | 0. | 0. | 0. |
| 1000 | 68. | 114. | 0. | 0. | 0. |
| 1250 | 67. | 113. | 0. | 0. | 0. |
| 1600 | 68. | 116. | 0. | 0. | 0. |
| 2000 | 67. | 119. | 0. | 0• | 0. |
| 2500 | 67. | 115. | 0. | 0. | 0. |
| 31 50 | 67. | 119. | 0. | 0 • | n • |
| 4000 | 68. | 118. | 0. | 0. | 0. |
| 5000 | 67. | 118. | 0. | 0• | 0. |
| 6300 | 68. | 120. | 0. | 0. | 0. |
| 8000 | 67. | 120. | 0. | 0. | O. |
| 10200 | 68. | 122. | 0. | 0. | 0. |
| 12500 | 6 R. | 124. | 0. | 0• | 0. |
| 16000 | 68. | 126. | 0. | 0. | 0. |
| 20000 | 69. | 124. | 0. | 0. | 0. |
| OCTAVE FRED | | | | | |
| 63 | 73. | 125. | 0. | 0. | 0. |
| 125 | 72. | 124. | 0. | 0. | 0. |
| 250 | 72. | 116. | 0. | 0. | 0. |
| 500 | 72. | 116. | 0. | 0. | 0. |
| 1000 | 72. | 118. | 0. | 0. | 0. |
| 2000 | 72. | 122. | 0. | 0. | 0. |
| 4000 | 72. | 123. | 0. | 0. | 0. |
| 8000 | 72. | 126. | 0. | 0. | 0. |
| 16000 | 73. | 130. | 0. | 0. | o. |

| | | MICROPHO | NE POSITION | | |
|--------------|-----|----------|-------------|------------|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 122. | 0. | 0. | 0. |
| 63 | 68. | 121. | 0. | 0. | 0. |
| 80 | 68. | 118. | 0. | 0. | 0. |
| 100 | 68. | 118. | 0. | 0. | 0. |
| 125 | 68. | 120. | 0. | 0. | 0. |
| 160 | 67. | 124. | 0. | 0. | 0. |
| 200 | 68. | 119. | 0. | 0. | 0. |
| 250 | 68. | 116. | 0. | 0. | 0. |
| 315 | 68. | 116. | 0. | 0. | 0. |
| 400 | 67. | 115. | 0. | 0. | 0. |
| 50 0 | 67. | 119. | 0. | 0. | 0. |
| 630 | 68. | 119. | 0. | 0. | 0. |
| 800 | 68. | 118. | 0. | 0. | 0. |
| 1000 | 58. | 118. | 0. | 0. | 0. |
| 1250 | 68. | 119. | 0. | 0. | 0. |
| 1600 | 67. | 118. | 0. | 0. | 0. |
| 2000 | 67. | 117. | 0. | 0. | 0. |
| 2500 | 67. | 118. | 0. | 0. | 0. |
| 31 50 | 67. | 120. | 0. | c . | 0. |
| 4000 | 68. | 124. | 0. | 0. | 0. |
| 5000 | 67. | 123. | 0. | 0. | 0. |
| 6300 | 68. | 122. | 0. | 0. | 0. |
| 8000 | 67. | 120. | 0. | 0. | 0. |
| 10000 | 67. | 122. | 0. | 0. | 0. |
| 12500 | 68. | 119. | 0. | 0. | 0. |
| 16000 | 68. | 115. | 0. | 0. | 0. |
| 20000 | 68. | 110. | 0. | 0. | 0. |
| | | | | | |
| CCTAVE FREQ | | | | | |
| 63 | 73. | 125. | 0. | 0. | 0. |
| 125 | 72. | 126. | 0. | 0. | 0. |
| 250 | 73. | 122. | 0. | 0. | 0. |
| 500 | 72. | 123. | 0. | 0. | 0. |
| 1000 | 73. | 123. | 0. | 0. | 0. |
| 2000 | 72. | 122. | 0. | 0. | 0. |
| 4000 | 72. | 127. | 0. | 0. | 0. |
| 8000 | 72. | 126. | 0. | 0. | 0. |
| 16000 | 73. | 121. | 0. | 0. | 0. |

| | | MICRUPHON | E POSITION | | |
|--------------|-------|-----------|------------|-----|-----------|
| 1/3 DOT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 121. | 0. | 0. | 0. |
| 63 | 67. | 118. | 0. | 0. | 0. |
| 80 | 67. | 119. | 0. | 0. | 0. |
| 100 | 68. | 119. | 0. | 0. | 0. |
| 125 | 68. | 119. | 0. | 0. | 0. |
| 160 | 67. | 118. | 0. | 0. | 0. |
| 200 | 68. | 112. | 0. | 0. | 0. |
| 250 | 68. | 112. | 0. | 0. | 0. |
| 315 | 68. | 111. | 0. | 0. | 1. |
| 400 | 67. | 109. | 0. | 0. | 0. |
| 500 | 58. | 110. | C. | 0. | 0. |
| 630 | 68. | 114. | 0. | 0. | 0. |
| 800 | 68. | 113. | 0. | 0 • | |
| 1000 | 67. | 114. | 0. | 0. | |
| 1250 | 67. | 114. | 0. | 0. | |
| 1600 | 6 P . | 116. | 0. | 0. | 1 |
| 2000 | 67. | 119. | 0. | 0. | 1. |
| 2500 | 67. | 115. | 0. | 0. | 0. |
| 3150 | 68. | 119. | 0. | 0. | 0. |
| 4000 | 6 R . | 119. | 0. | 0. | 7. |
| 5200 | 68. | 118. | 0. | C • | n. |
| 6300 | 68. | 119. | 0. | 0. | 0. |
| 8000 | 67. | 120. | 0. | 0. | 0. |
| 10000 | 67. | 122. | 0. | 0. | 0. |
| 12500 | 68. | 124. | 0. | 0. | 0. |
| 16000 | 68. | 126. | 0. | 0. | 0. |
| 20000 | 68. | 125. | 0. | 0. | 0. |
| CCTAVE FREQ | | | | | |
| 63 | 73. | 124. | 0. | 0. | 0. |
| 125 | 72. | 123. | 0. | 0. | 0. |
| 250 | 73. | 116. | 0. | 0. | 0. |
| 500 | 72. | 116. | 0. | 0. | 0. |
| 1000 | 72. | 118. | 0. | 0. | 0. |
| 2000 | 72. | 122. | 0. | 0. | 0. |
| 4000 | 73. | 123. | 0. | 0. | 0. |
| 8000 | 72. | 125. | 0. | 0. | 0. |
| 16000 | 73. | 130. | 0. | 0. | 0. |

| | | MICROPH | ONE POSITION | | |
|--------------|-----|---------|--------------|-----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 122. | 0. | 0. | 0. |
| 63 | 68. | 123. | 0. | 0. | 0. |
| 80 | 67. | 118. | 0. | 0. | 0. |
| 100 | 68. | 118. | 0. | 0. | 0. |
| 125 | 67. | 121. | 0. | 0. | 0. |
| 160 | 68. | 125. | 0. | 0. | 0. |
| 200 | 68. | 119. | 0. | 0. | 0. |
| 250 | 68. | 117. | 0. | 0. | 0. |
| 315 | 68. | 116. | 0. | 0. | 0. |
| 400 | 67. | 115. | 0. | J. | 0. |
| 500 | 67. | 119. | 0. | 0. | 0. |
| 630 | 68. | 119. | 0. | 0. | 0. |
| 800 | 68. | 117. | 0. | 0. | 0. |
| 1000 | 67. | 118. | 0. | 0. | 0. |
| 1250 | 68. | 119. | 0. | 0. | 0. |
| 1600 | 68. | 118. | 0. | 0. | 0. |
| 2000 | 67. | 117. | 0. | 0. | 0. |
| 2500 | 67. | 118. | 0. | 0. | 0. |
| 3150 | 67. | 120. | 0. | 0. | 0. |
| 4000 | 68. | 124. | 0. | 0 • | 0. |
| 5000 | 67. | 123. | 0. | 0. | 0. |
| 6300 | 67. | 123. | 0. | 0. | 0. |
| 8000 | 67. | 120. | 0. | 0. | 0. |
| 10200 | 68. | 123. | 0. | 0. | 0. |
| 12500 | 68. | 118. | 0. | 0. | 0. |
| 16000 | 67. | 115. | 0. | 0. | 0. |
| 20000 | 68. | 110. | 0. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 126. | 0. | 0. | 0. |
| 125 | 72. | 127. | 0. | o. | 0. |
| 250 | 73. | 122. | 0. | 0. | 0. |
| 500 | 72. | 123. | 0. | 0. | n. |
| 1000 | 72. | 123. | 0. | ñ. | 0. |
| 2000 | 72. | 122. | 0. | 0. | 0. |
| 4000 | 72. | 127. | 0. | ő. | 0. |
| 8000 | 12. | 127. | 0. | ñ. | Ö. |
| 16000 | 72. | 120. | 0. | 0. | 0. |

VG=.95 FUEL MODE=WF FUEL=STD PCWER SETTING 70 READING NO. 2139

| | | MICROPHONE | POSITION | | |
|--------------|-----|------------|----------|----|----|
| 1/3 OCT FRED | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 119. | 0. | 0. | 0. |
| 63 | 68. | 117. | 0. | 0. | 0. |
| 80 | 67. | 120. | 0. | 0. | 0. |
| 100 | 68. | 120. | 0. | 0. | 0. |
| 125 | 67. | 120. | 0. | 0. | 0. |
| 160 | 67. | 119. | 0. | 0. | 0. |
| 200 | 68. | 113. | C. | 0. | n. |
| 250 | 67. | 112. | 0. | 0• | 0. |
| 315 | 68. | 111. | 0. | 0. | 0. |
| 400 | 66. | 108. | 0. | 0. | 0. |
| 500 | 68. | 110. | 0. | 0. | 0. |
| 630 | 68. | 114. | 0. | 0. | 0. |
| 800 | 68. | 114. | 0. | 0. | 0. |
| 1000 | 68. | 115. | . | 0. | 0. |
| 1250 | 68. | 114. | 0. | 0. | 0. |
| 1600 | 67. | 116. | 0. | 0. | 0. |
| 2100 | 67. | 119. | 0. | O | 0. |
| 2500 | 68. | 115. | 0. | 0. | 0. |
| 3150 | 67. | 119. | 0. | 0. | 0. |
| 4000 | 68. | 119. | 0. | 0. | 0. |
| 5000 | 67. | 119. | 0. | 0. | 0. |
| 6300 | 67. | 119. | 0. | 0. | 0. |
| 8000 | 67. | 121. | 0. | 0. | 0. |
| 10000 | 67. | 122. | 0. | 0. | 0. |
| 12500 | 68. | 125. | 0. | 0. | 0. |
| 16000 | 68. | 126. | 0• | 0. | 0. |
| 20000 | 68. | 125. | 0. | ο. | 0. |
| CCTAVE FPEQ | | | | | |
| 63 | 73. | 124. | 0. | 0. | 0. |
| 125 | 72. | 124. | 0. | 0. | 0. |
| 250 | 72. | 117. | 0. | 0. | 0. |
| 500 | 72. | 116. | 0. | 0. | 0. |
| 1000 | 73. | 119. | 0. | 0. | 0. |
| 2000 | 72. | 122. | 0. | 0. | 0. |
| 4000 | 72. | 124. | 0. | 0. | 0. |
| 8000 | 72. | 126. | 0. | 0. | 0. |
| 16000 | 73. | 130. | 0. | 0. | 0. |

VG=.60 FUEL MODE=AA FUEL=STD POWER SETTING 70 READING NO. 2141

| | | MICROPHON | E POSITION | | |
|--------------|-----|-----------|------------|-----|----|
| 1/3 CCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 70. | 120. | 0. | o. | 0. |
| 63 | 68. | 119. | 0. | 0. | 0. |
| 80 | 68. | 120. | 0. | 0. | 0. |
| 100 | 68. | 120. | 0. | 0. | 0. |
| 125 | 67. | 120. | 0. | 0. | 0. |
| 160 | 69. | 119. | 0. | 0. | 0. |
| 200 | 68. | 1:3. | 0. | 0. | 0. |
| 250 | 67. | 112. | 0. | 0. | 0. |
| 315 | 68. | 111. | 0. | 0. | 0. |
| 400 | 67. | 109. | 0. | 0. | 0. |
| 500 | 68. | 109. | 0. | ^ • | 0. |
| 630 | 68. | 114. | 0. | (1. | 0. |
| 800 | 68. | 114. | 0. | 0. | 0. |
| 1000 | 68. | 115. | 0. | 0. | 0. |
| 1250 | 67. | 113. | 0. | 0. | 0. |
| 1600 | 67. | 116. | 0. | 0. | 0. |
| 2000 | 67. | 119. | 0. | 0. | 0. |
| 2500 | 67. | 115. | 0. | 0. | 0. |
| 3150 | 67. | 120. | 0. | 0. | 0. |
| 4000 | 68. | 119. | 0. | 0. | 0. |
| 5000 | 67. | 119. | 0. | 0. | 0. |
| 6300 | 67. | 119. | 0. | 0. | 0. |
| 8000 | 67. | 121. | 0. | 0. | 0. |
| 10000 | 67. | 123. | 0. | 0. | 0. |
| 12500 | 68. | 125. | 0. | 0. | 0. |
| 1 6000 | 68. | 126. | 0. | 0. | 0. |
| 20000 | 68. | 124. | 0. | 0. | n. |
| OCTAVE FREQ | | | | | |
| 63 | 74. | 124. | 0. | 0. | 0. |
| 125 | 72. | 124. | 0. | 0. | n. |
| 250 | 72. | 117. | 0. | 0. | 0. |
| 500 | 72. | 116. | 0. | 0. | ñ. |
| 1000 | 77. | 119. | 0. | 0. | 0. |
| 2000 | 72. | 122. | 0. | 0. | n. |
| 4000 | 72. | 124. | 0. | 0. | 0. |
| 8000 | 72. | 126. | 0. | 0. | 0. |
| 16000 | 73. | 130. | 0. | 0. | 0. |

| | | MICROPHO | NE POSTTION | | |
|--------------|-------|----------|-------------|-----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 136. | 0. | 0. | 0. |
| 63 | 67. | 136. | 0. | 0 . | 0. |
| 80 | 67. | 133. | 0. | 0. | 0. |
| 100 | 68. | 129. | 0. | 0. | 0. |
| 125 | 69. | 130. | 0. | 0. | 0. |
| 160 | 68. | 129. | 0. | 0. | 0. |
| 200 | 67. | 128. | 0. | 0. | 0. |
| 250 | 6R. | 127. | 0. | 0. | 0. |
| 315 | 68. | 125. | 0. | 0. | 0. |
| 400 | 67. | 124. | 0. | 0. | 0. |
| 500 | 6 R • | 126. | 0. | 0. | 0. |
| 630 | 68. | 128. | 0. | 0. | 0. |
| 900 | 68. | 127. | 0. | 0. | 0. |
| 1000 | 68. | 127. | 0. | 0. | 0. |
| 1250 | 68. | 129. | 0. | 0. | 0. |
| 1600 | 67. | 128. | 0. | 0. | 0. |
| 2000 | 68. | 127. | 0• | 0. | 0. |
| <i>2</i> 500 | 67. | 128. | 0. | 0. | 0. |
| 3150 | 67. | 130. | 0. | 0. | 0. |
| 4000 | 68. | 134. | 0. | 0. | 0. |
| 5000 | 67. | 133. | 0. | 0. | 0. |
| 6300 | 67. | 133. | 0. | 0. | 0. |
| 8000 | 67. | 131. | 0. | 0. | 0. |
| 10000 | 67. | 133. | 0. | 0. | 0. |
| 12500 | 68. | 128. | 0. | 0. | 0. |
| 16000 | 68. | 125. | 0. | 0. | 0. |
| 20000 | 68. | 120. | 0. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 140. | 0. | 0. | 0. |
| 125 | 73. | 134. | 0. | 0. | 0. |
| 250 | 72. | 132. | 0. | 0. | 0. |
| 500 | 72. | 131. | 0. | 0. | 0. |
| 1000 | 73. | 133. | 0. | 0. | 0. |
| 2000 | 72. | 132. | 0. | 0. | 0. |
| 4000 | 72. | 137. | 0. | 0. | 0. |
| 8000 | 72. | 137. | 0. | 0. | 0. |
| 16000 | 73. | 130. | 0. | 0. | 0. |

VG=1.05 FUFL MODE=AA FUEL=STD POWER SETTING 70 READING NO. 2143

| | | MICROPHO | NE POSITION | Ī | |
|--------------|-----|----------|-------------|-----|----|
| 1/3 NCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 70. | 129. | 0. | 0. | 0. |
| 63 | 68. | 129. | 0. | 0. | 0. |
| 80 | 68. | 130. | 0. | 0. | 0. |
| 100 | 68. | 132. | 0. | 0. | 0. |
| 125 | 68. | 130. | 0. | 0. | 0. |
| 160 | 67. | 128. | 0. | 0. | 0. |
| 200 | 67. | 123. | 0. | 0 • | 0. |
| 250 | 68. | 122. | 0. | 0. | 0. |
| 315 | 68. | 121. | 0. | 0. | 0. |
| 400 | 67. | 118. | 0. | 0. | 0. |
| 500 | 67. | 120. | 0. | 0. | 0. |
| 630 | 68. | 124. | 0. | 0. | 0. |
| 800 | 68. | 124. | 0. | 0. | 0. |
| 1000 | 67. | 124. | 0. | 0. | 0. |
| 1250 | 67. | 123. | 0. | 0. | 0. |
| 1600 | 68. | 126. | 0. | 0. | 0. |
| 2000 | 67. | 129. | 0. | 0. | 0. |
| 250 J | 67. | 125. | 0. | 0. | 0. |
| 31 50 | 67. | 129. | 0• | 0. | 0. |
| 4000 | 68. | 129. | 0. | 0. | 0• |
| 5000 | 67. | 128. | 0. | 0. | 0. |
| 6300 | 68. | 130. | 0. | 0. | 0. |
| 8000 | 67. | 131. | 0. | 0. | 0. |
| 10000 | 68. | 133. | 0• | 0. | 0. |
| 1 2500 | 67. | 135. | 0. | 0. | 0. |
| 16000 | 68. | 136. | 0• | 0. | 0. |
| 20000 | 68. | 135. | 0. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 74. | 134. | 0. | 0. | 0. |
| 125 | 72. | 135. | 0. | 0. | 0. |
| 250 | 72. | 127. | 0. | 0. | 0. |
| 500 | 72. | 126. | 0. | 0. | 0. |
| 1000 | 72. | 128. | 0. | 0. | 0. |
| 2000 | 72. | 132. | 0. | 0. | 0. |
| 4000 | 72. | 133. | 0. | 0. | 0. |
| 8000 | 72. | 136. | 0. | 0. | 0. |
| 16000 | 72. | 140. | 0. | 0. | 0. |

| | | MICROPHIN | F POSITION | I | |
|--------------|-----|-----------|------------|-----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 130. | 0. | 0. | 0. |
| 63 | 67. | 128. | 0. | 0. | 0. |
| 80 | 67. | 130. | 0. | 0. | 0. |
| 100 | 68. | 130. | 0. | 0. | 0. |
| 125 | 67. | 130. | 0. | 0. | 0. |
| 160 | 68. | 129. | 0. | 0. | 0. |
| 200 | 68. | 123. | 0. | 0. | 0. |
| 250 | 67. | 122. | 0. | 0. | 0. |
| 315 | 68. | 121. | 0. | 0. | 0. |
| 400 | 67. | 118. | 0. | 0. | 0. |
| 500 | 67. | 120. | 0. | 0. | 0. |
| 630 | 68. | 124. | 0. | 0. | 0. |
| 800 | 68. | 124. | 0. | 0. | 0. |
| 1000 | 68. | 125. | 0. | 0. | 0. |
| 1250 | 68. | 124. | 0. | 0. | 0. |
| 1600 | 67. | 126. | 0. | 0. | 0. |
| 2000 | 67. | 128. | 0. | 0. | 0. |
| <i>2</i> 500 | 67. | 125. | 0. | 0. | 0. |
| 3150 | 68. | 129. | 0. | 0. | 0. |
| 4000 | 68. | 129. | 0. | 0. | 0. |
| 5000 | 67. | 128. | 0. | 0. | 0. |
| 6300 | 67. | 129. | 0. | 0. | n. |
| 8000 | 67. | 131. | 0. | 0. | 0. |
| 10000 | 67. | 133. | 0. | 0. | 0. |
| 12500 | 68. | 135. | 0. | 0. | 0. |
| 16000 | 67. | 136. | 0. | 0. | 0. |
| 20000 | 68. | 134. | 0. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 134. | 0. | 0. | n. |
| 125 | 72. | 134. | 0. | 0 • | 0. |
| 250 | 72. | 127. | 0. | 0. | 0. |
| 500 | 72. | 126. | 0. | 0. | 0. |
| 1000 | 73. | 129. | 0. | 0. | 0. |
| 2000 | 72. | 131. | 0. | 0. | 0. |
| 4000 | 72. | 133. | 0. | 0. | 0. |
| 8000 | 72. | 136. | 0. | 0. | 0. |
| 16000 | 72. | 140. | 0. | 0. | 0. |

VG=.90 FUFL MODF=WF FUFL=STD PCWER SFTTING 80 READING NO. 2146

| | | MICROPHONE | POSITION | | |
|--------------|-------|------------|----------|-----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 68. | 135. | 0. | 0. | 0. |
| 63 | 68. | 136. | 0. | 0. | 0. |
| 80 | 67. | 135. | 0. | 0. | 0. |
| 100 | 68. | 130. | 0. | 0. | 0. |
| 125 | 67. | 129. | 0. | 0. | 0. |
| 160 | 68. | 129. | 0. | 0. | 0. |
| 200 | 5 B • | 128. | 0. | 0. | 0. |
| 250 | 67. | 126. | 0. | 0. | 0. |
| 315 | 68. | 125. | 0. | 0. | 0. |
| 400 | 67. | 125. | 0. | 0 - | 0. |
| 500 | 67. | 127. | 0. | 0. | 0. |
| 630 | 68. | 128. | 0. | 0. | 0. |
| 800 | 68. | 127. | 0. | 0. | 0. |
| 1000 | 67. | 127. | 0. | 0. | 0. |
| 1250 | 68. | 129. | 0. | 0. | n. |
| 1600 | 67. | 128. | 0. | 0. | 0. |
| 2000 | 67, | 128. | 0. | 0. | 0. |
| 2570 | 67. | 128. | · | 0. | 0. |
| 31 50 | 67. | 130. | 0. | 0. | 0. |
| 4000 | 68. | 135. | 0. | 0. | n. |
| 5200 | 67. | 134. | 0. | 0. | 0. |
| 6300 | 67. | 133. | 0. | n. | 0. |
| 8000 | 67. | 130. | 0. | 0. | 0. |
| 10000 | 6°• | 133. | 0. | 0. | 0. |
| 1 2500 | 63. | 128. | 0. | 0. | 0. |
| 16000 | 67. | 125. | 0. | 0. | 0. |
| 20000 | 68. | 120. | 0. | 0. | 0. |
| CCTAVE FREQ | | | | | |
| 63 | 72. | 140. | 0. | 0. | 0. |
| 125 | 72. | 134. | 0. | 0. | 0. |
| 250 | 72. | 131. | 0. | 0. | 0. |
| 500 | 77. | 132. | 0. | 0. | 0. |
| 1000 | 72. | 133. | 0. | 0. | 0. |
| 2000 | 72. | 133. | 0. | 0. | 0. |
| 4000 | 72. | 138. | 0. | 0. | ٥. |
| 8000 | 72. | 137. | 0. | 0. | 0. |
| 16000 | 72. | 130. | 0. | 0. | 0. |

| | | MICROPHONE | POSITION | | |
|--------------|-------------|------------|----------|-----|----|
| 1/3 CCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 129. | 0. | 0. | 0. |
| 63 | 69. | 127. | 0. | 0. | 0. |
| 80 | 68. | 130. | 0. | 0. | 0. |
| 100 | 68. | 130. | 0. | 0. | n. |
| 125 | 67. | 130. | 0. | 0. | 0. |
| 160 | 68. | 130. | 0. | 0. | 0. |
| 200 | 68. | 123. | 0. | 0. | 0. |
| 250 | 57. | 122. | 0. | 0. | 0. |
| 315 | 58 . | 121. | 0. | 0. | n. |
| 400 | 67. | 119. | 0. | 0. | 0. |
| 500 | 67. | 120. | 0. | 0. | 0. |
| 630 | 68. | 125. | 0. | 0. | 0. |
| 800 | 68. | 124. | 0. | 0 • | 0. |
| 1000 | 68. | 125. | 0. | 0. | 0. |
| 1250 | 68. | 124. | 0. | 0. | 0. |
| 1600 | 67. | 126. | 0. | 0. | 0. |
| 2000 | 67. | 128. | 0. | 0. | 0. |
| 2500 | 67. | 125. | 0. | 0. | 0. |
| 3150 | 67. | 129. | 0. | 0. | 0. |
| 4000 | 68. | 129. | 0. | 0. | 0. |
| 5000 | 67. | 128. | 0. | 0. | 0. |
| 6300 | 67. | 130. | 0. | 0. | 0. |
| 0.008 | 67. | 131. | 0. | 0. | 0. |
| 10000 | 67. | 133• | 0. | 0. | 0. |
| 12500 | 68. | 135. | 0. | 0. | 0. |
| 16000 | 68. | 136. | 0. | 0. | 0. |
| 20000 | 68. | 134. | 0. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 134. | 0. | 0. | 0. |
| 125 | 72. | 135. | 0. | 0. | 0. |
| 250 | 72. | 127. | 0. | 0. | 0. |
| 500 | 72. | 127. | 0. | 0. | 0. |
| 7000 | 73. | 129. | 0. | 0. | 0. |
| 2000 | 72. | 131. | 0. | 0. | 0. |
| 4000 | 72. | 133. | 0. | 0. | 0. |
| 8000 | 72. | 136. | 0. | 0. | 0. |
| 16000 | 73. | 140. | 0. | 0. | 0. |

VG=1.10 FUEL MODE=WF FUEL=STD PCWFR SETTING 80 READING NO. 2148

| | | MICROPHON | F POSITION | | |
|--------------|------|-----------|------------|------------|----|
| 1/3 OCT FREQ | t | 2 | 3 | 4 | 5 |
| 50 | 68. | 137. | 0. | 0. | 0. |
| 63 | 68. | 135. | 0. | 0. | 0. |
| 89 | 68. | 134. | 0. | 0. | 0. |
| 100 | 68. | 131. | 0. | 0. | 0. |
| 125 | 68. | 130. | 0. | C - | 0. |
| 160 | 68. | 130. | 0. | 0. | 0. |
| 200 | 68. | 128. | 0. | 0. | 0. |
| 250 | 67. | 128. | 0. | 0. | 0. |
| 315 | 68. | 127. | 0. | 0. | 0. |
| 400 | 67. | 126. | 0. | 0. | 0. |
| 500 | 67. | 127. | 0. | 0. | 0. |
| 630 | 69. | 128. | 0. | 0. | 0. |
| 900 | 68. | 126. | 0. | 0. | 0. |
| 1000 | 6 R. | 127. | 0. | 0. | 0. |
| 1250 | 67. | 129. | 0. | 0. | 0. |
| 1600 | 67. | 128. | 0. | 0. | 0. |
| 2000 | 67. | 127. | 0. | 0. | 0. |
| 2500 | 67. | 128. | 0. | 0. | 0. |
| 3150 | 67. | 130. | 0. | 0. | 0. |
| 4000 | 68. | 135. | 0. | 0. | 0. |
| 5000 | 67. | 134. | 0. | 0. | 0. |
| 6300 | 68. | 133. | 0. | 0. | 0. |
| 8000 | 67. | 130. | 0. | 0. | 0. |
| 10000 | 67. | 134. | 0. | 0. | 0. |
| 12500 | 68. | 129. | 0. | 0. | 0. |
| 16000 | 68. | 125. | 0. | 0. | 0. |
| 20000 | 68. | 120. | 0. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 140. | 0. | 0. | 0. |
| 125 | 73. | 135. | 0. | 0. | j. |
| 250 | 72. | 132. | 0. | 0. | 0. |
| 500 | 73. | 132. | 0. | 0. | 0. |
| 1000 | 72. | 132. | 0. | 0. | 0. |
| 2000 | 72. | 132. | 0. | 0. | 0. |
| 4000 | 72. | 138. | 0. | 0. | 0. |
| 8000 | 72. | 137. | 0. | 0. | 0. |
| 16000 | 73. | 131. | 0. | 0. | 0. |
| | | | | | |

| | | MICROPHONE | POSITION | | |
|--------------|-------------|------------|------------|----|----|
| 1/3 OCT FREQ | _ 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 129. | 0. | 0. | 0. |
| 63 | 67. | 128. | 0. | 0. | 0. |
| 80 | 5 A . | 129. | 0. | 0. | 0. |
| 100 | 67. | 130. | 0. | 0. | 0. |
| 125 | 67. | 131. | 0. | 0. | 0. |
| 160 | 68. | 130. | 0. | 0. | 0. |
| 200 | 58 • | 123. | 0. | 0. | 0. |
| 250 | 67. | 122. | 0. | 0. | 0. |
| 315 | 69. | 120. | 0. | 0. | 0. |
| 400 | 67. | 119. | 0. | 0. | n. |
| 500 | 67. | 120. | 0. | 0. | 0. |
| 630 | 68. | 125. | 0. | 0. | 0. |
| 800 | 68. | 124. | 0. | 0. | 0. |
| 1000 | 68. | 125. | 0. | 0. | 0. |
| 1250 | 67. | 123. | 0. | 0. | 0. |
| 1600 | 67. | 126. | 0. | 0. | 0. |
| 2000 | 67. | 129. | 0. | 0. | 0. |
| 2500 | 67. | 125. | 0. | 0. | 0. |
| 3150 | 67. | 129. | 0. | 0. | 0. |
| 4000 | 68. | 129. | 0. | 0. | 0. |
| 5000 | 67. | 129. | 0. | 0. | 0. |
| 6300 | 67. | 130. | 0. | C. | 0. |
| 8000 | 67. | 131. | 1. | 0. | 0. |
| 10000 | 67. | 133. | 0. | 0. | 0. |
| 12500 | 68. | 135. | 0. | 0. | 0. |
| 16000 | 67. | 136. | C. | 0. | 0. |
| 50000 | 68. | 134. | 0. | 0. | 0. |
| 067445 5050 | | | | | |
| OCTAVE FRED | 3.0 | | _ | _ | |
| 63 | 73. | 133. | 0. | 0. | 0. |
| 125 | 72. | 135. | 0. | 0. | 0. |
| 250 | 72. | 127. | 0. | 0. | 0. |
| 500 | 72. | 127. | 0. | 0. | 0. |
| 1000 | 72. | 129. | 0. | 0. | 0. |
| 2000 | 72. | 132. | C• | 0. | 0. |
| 4000 | 72. | 133. | <u>0</u> . | ů• | n. |
| 9000 | 72. | 136. | 0. | 0. | 0. |
| 16000 | 72. | 140. | 0. | O. | 0. |

| | | MICROPHONE | POSTTION | | |
|--------------|-----|------------|----------|----|-----------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 68. | 136. | 0. | 0. | 0. |
| 63 | 68. | 136. | 0. | 0. | 0. |
| 80 | 67. | 134. | 0. | 0. | 0. |
| 100 | 68. | 130. | 0. | 0. | 0. |
| 125 | 67. | 130. | 0. | 0. | 0. |
| 160 | 68. | 130. | 0. | 0. | 0. |
| 200 | 68. | 128. | 0. | 0. | 0. |
| 250 | 68. | 127. | 0. | 0. | 0. |
| 315 | 68. | 125. | 0. | 0• | ?. |
| 400 | 67. | 125. | 0. | 0. | 0. |
| 500 | 67. | 126. | 0. | O. | 0. |
| 630 | 68. | 127. | O. | 0. | 0. |
| 800 | 68. | 127. | 0. | 0• | ာ. |
| 1000 | 68. | 127. | 0. | 0. | 0. |
| 1250 | 68. | 129. | 0. | 0. | 0. |
| 1600 | 67. | 128. | 0. | 0. | 0. |
| 2000 | 67. | 128. | 0. | n. | 0. |
| 2500 | 67. | 129. | 0. | 0. | 0. |
| 3150 | 67. | 131. | 0. | 0. | 0. |
| 4000 | 68. | 136. | 0. | 0. | 0. |
| 5000 | 67. | 134. | 0. | 0. | 0. |
| 6300 | 68. | 134. | 0. | 0. | 0. |
| 8000 | 67. | 131. | 0. | 0. | ç. |
| 1 0000 | 68. | 133. | 0. | 0. | Û• |
| 1 2500 | 68. | 129. | 0. | 0. | 0. |
| 16000 | 68. | 125. | 0. | 0. | 0. |
| 20000 | 68. | 120. | 0. | 0. | 0. |
| OCTAVE FRED | | | | | |
| 63 | 72. | 140. | 0. | 0. | 0. |
| 125 | 72. | 135. | 0. | 0. | n. |
| 250 | 73. | 132. | 0. | 0. | C. |
| 500 | 72. | 131. | 0. | 0. | 0. |
| 1000 | 73. | 133. | 0. | 0. | 0. |
| 2000 | 72. | 133. | 0. | n. | 0. |
| 4000 | 72. | 139. | 0. | 0. | 0. |
| 8000 | 72. | 138. | C. | 0. | 0. |
| 16000 | 73. | 131. | 0. | 0. | n. |

VG=1.20 FUFL MODE=AA FUFL=STD PCWFR SETTING 80 READING NO. 2151

| | | MICROPHONE | POSITION | | |
|--------------|----------|------------|--------------|-------|-----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 129. | 0. | 0. | 0. |
| 63 | 68. | 128. | 0. | 0. | 0. |
| 80 | 68. | 130. | 0. | 0. | 0. |
| 100 | 69. | 130. | 0. | 0. | 0. |
| 125 | 67. | 129. | 0. | 0. | 0. |
| 160 | 67. | 128. | 0. | 0. | 0. |
| 200 | 68. | 122. | 0. | 0. | 0. |
| 250 | 67. | 121. | 0. | 0. | 0. |
| 315 | 68. | 121. | 0. | 0. | 0. |
| 400 | 67. | 118. | 0. | 0. | 0. |
| 500 | 67. | 120. | 0. | 0. | 0. |
| 630 | 68. | 124. | 0. | 0. | n. |
| 800 | 68. | 124. | 0. | 0. | 0. |
| 1000 | 68. | 124. | 0. | 0. | 0. |
| 1250 | 68. | 123. | 0. | ο. | 0. |
| 1600 | 67. | 125. | 0. | 0. | 0. |
| 2000 | 67. | 127. | 0. | n. | 0. |
| 2500 | 67. | 124. | 0. | С. | 0. |
| 3150 | 67. | 128. | 0. | 0. | 0. |
| 4000 | 68. | 128. | O• | 0. | 0. |
| 5000 | 67. | 127. | 0. | 0. | 0. |
| 6300 | 68. | 129. | 0. | 0. | n. |
| 8000 | 68. | 129. | 0. | 0. | 0. |
| 10000 | 67. | 131. | 0. | 0. | 0. |
| 12500 | 68. | 132. | 0. | 0. | 0. |
| 16000 | 57. | 133. | 0. | r. | 0. |
| 20000 | 68. | 132. | 0. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 134. | 0. | 0. | 0. |
| 125 | 72. | 134. | n. | ñ. | n. |
| 250 | 72. | 126. | 0. | 0. | 0. |
| 500 | 72. | 126. | 0. | ñ. | 0. |
| 1000 | 73. | 128. | ñ. | 0. | 0. |
| 2000 | 72. | 130. | 0. | 0. | 0. |
| 4000 | 72. | 132. | ő . | 0. | 0. |
| 8000 | 72. | 135. | 0. | 0. | 0. |
| 16000 | 72. | 137. | 0. | 0. | 7. |
| | <i>-</i> | • · · • | - | · - • | 1 ● |

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VG=.95 FUEL MODE=W; FUFL=STD POWER SETTING 85 READING NO. 2102

| | | MICROPHON | F POSITION | | |
|--------------|-----|-----------|------------|-----|-----|
| 1/3 CCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 128. | 0. | o. | ő. |
| 63 | 68. | 125. | 0. | o. | 0. |
| 80 | 68. | 123. | 0. | 0. | 0. |
| 100 | 9. | 123. | 0. | 0. | 0. |
| 125 | 3. | 125. | 0. | 0. | 0. |
| 160 | 68. | 124. | 0. | 0. | 0. |
| 200 | 68. | 125. | 0. | 0. | ő. |
| 250 | 68. | 125. | 0. | 0. | 0. |
| 315 | 68. | 123. | 0. | 0. | 0. |
| 400 | 67. | 122. | 0. | 0. | 0. |
| 500 | 67. | 122. | 0. | 0. | 0. |
| 630 | 68. | 126. | 0. | 0. | 0. |
| 800 | 68. | 125. | 0. | 0. | o. |
| 1000 | 68. | 125. | 0. | Ö. | n. |
| 1250 | 68. | 126. | 0. | Ĉ. | n. |
| 1600 | 67. | 128. | 0. | 0. | n. |
| 2000 | 67. | 129. | 0. | 0. | 2. |
| 2500 | 67. | 134. | 0. | 0. | ń. |
| 3150 | 68. | 130. | 0. | 0. | 0. |
| 4000 | 68. | 133. | 0. | 0. | 0. |
| 5000 | 67. | 134. | 0. | 0. | 0. |
| 6300 | 67. | 132. | 0. | 0. | 0. |
| 8000 | 67. | 129. | 0. | 0. | 0. |
| 1 00 0 0 | 67. | 133. | 0. | 0. | n. |
| 12500 | 68. | 122. | 0. | 0. | Ö. |
| 16000 | 68. | 119. | 0. | 0. | o. |
| 20000 | 68. | 111. | 0. | 0. | 0. |
| | | | | ,,, | .,, |
| CCTAVE FREQ | | | | | |
| 63 | 73. | 131. | 0. | 0. | 0. |
| 125 | 73. | 129. | 0. | 0. | o. |
| 250 | 73. | 129. | 0. | 0. | 0. |
| 500 | 72. | 129. | 0. | 0. | n. |
| 1000 | 73. | 130. | 0. | 0. | 0. |
| 2000 | 72. | 136. | 0. | 0. | 0. |
| 4000 | 72. | 137. | 0. | 0. | 0. |
| 8000 | 72. | 136. | 0. | 0. | 0. |
| 16000 | 73. | 124. | 0. | 0. | 0. |
| | - | J = . • | | | 17. |

FUEL=STD

VG=1.00 FUFL MODF=WF PCWER SETTING 85 READING NO. 2103

| | | MICROPHO | NE POSITION | | |
|--------------|-----|----------|-------------|-----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 130. | 0. | 0. | 0. |
| 63 | 68. | 128. | 0. | 0. | n. |
| 80 | 67. | 127. | 0. | 0. | 0. |
| 100 | 67. | 120. | 0. | 0. | 0. |
| 125 | 68. | 122. | 0. | 0. | 0. |
| 160 | 67. | 120. | 0. | 0. | 0. |
| 200 | 67. | 122. | 0. | 0. | 0. |
| 250 | 67. | 124. | 0. | 0. | 0. |
| 315 | 68. | 122. | 0• | 0. | 0. |
| 400 | 67. | 122. | 0. | 0• | 0. |
| 500 | 67. | 127. | 0. | 0. | 0. |
| 630 | 68. | 127. | 0. | 0. | 0. |
| 800 | 68. | 128. | 0. | 0 • | 0. |
| 1000 | 68. | 129. | 0. | 0. | 0. |
| 1250 | 68. | 131. | 0. | 0. | 0. |
| 1600 | 67. | 132. | 0. | 0. | 0. |
| 2000 | 67. | 129. | 0. | 0. | 0. |
| 2500 | 67. | 127. | 0. | 0. | 0. |
| 3150 | 68. | 129. | 0. | 0• | C. |
| 4000 | 68. | 128. | 0. | 0. | 0. |
| 5000 | 67. | 129. | 0. | 0. | 0. |
| 63.00 | 68. | 132. | 0. | 0. | 0. |
| 8000 | 67. | 134. | 0. | 0. | 0. |
| 10000 | 67. | 135. | 0. | 0. | 0. |
| 1 2500 | 67. | 137. | 0. | 0. | 0. |
| 16000 | 67- | 137. | 0. | 0. | 0. |
| 20000 | 68. | 136. | 0• | 0. | 0. |
| CCTAVE FREQ | | | | | |
| 63 | 73. | 133. | 0. | 0. | 0. |
| 1.25 | 72. | 126. | 0. | 0. | 0. |
| 250 | 72. | 128. | 0. | 0. | 3 |
| 500 | 72. | 131. | 0. | 0. | 0. |
| 1000 | 73. | 134. | 0. | 0. | 0. |
| 2000 | 72. | 135. | 0. | 0. | 0. |
| 4000 | 72. | 133. | 0. | 0. | 0. |
| 8000 | 72. | 139. | 0. | 0. | 0. |
| 16000 | 72- | 141. | 0. | 0. | 0. |
| | | | | | |

| | | MICROPHON | NE POSITION | | |
|--------------|------|-----------|-------------|------|----|
| 1/3 CCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 129. | 0. | 0. | 0. |
| 63 | 67. | 127. | 0. | 0. | 0. |
| 90 | 67. | 125. | 0. | 0. | 0. |
| 100 | 68. | 124. | 0. | 0. | 0. |
| 125 | 68. | 124. | 0. | 0. | 0. |
| 160 | 68. | 125. | 0. | 0. | 0. |
| 200 | 68. | 125. | 0. | 0. | 0. |
| 250 | 67. | 125. | 0. | 0. | 0. |
| 315 | 67. | 123. | 0. | 0. | ٥. |
| 400 | 68. | 121. | 0. | 0. | 0. |
| 500 | 67. | 127. | 0. | •) • | 0. |
| 630 | 68. | 126. | 0. | 0. | 0. |
| 800 | 68. | 124. | 0. | 0. | 0. |
| 1000 | 68. | 126. | 0. | 0. | 0. |
| 1250 | 68. | 126. | 0. | 0. | 0. |
| 1600 | 67. | 128. | 0. | 0. | 0. |
| 2200 | 67. | 130. | 0. | 0. | 0. |
| 2500 | 67. | 137. | 0. | 0. | C. |
| 3150 | 67. | 133. | 0. | 0. | 0. |
| 4000 | 6 A. | 136. | 0. | 0. | 0. |
| 5000 | 67. | 135. | 0. | 0. | 0. |
| 6300 | 67. | 133. | 0. | 0. | 0. |
| 8000 | 67. | 129. | 0. | 0. | 0. |
| 10000 | 67. | 133. | 0. | 0. | 0. |
| 12500 | 67. | 123. | 0. | 0. | 0. |
| 16000 | 68. | 119. | 0. | 0. | 0. |
| 20000 | 68. | 112. | 0. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 132. | 0. | 0. | 0. |
| 125 | 73. | 129. | 0. | 0. | 0. |
| 250 | 72. | 129. | 0. | 0• | 0. |
| 500 | 72. | 130. | 0. | 0. | 0. |
| 1000 | 73. | 130. | 0. | 0. | 0. |
| 2000 | 72. | 138. | 0. | 0. | 0. |
| 4000 | 72. | 140. | 0. | 0. | 0. |
| 8000 | 72. | 137. | 0. | 0. | C. |
| 16000 | 72. | 125. | 0. | 0. | 0. |

VG=1.10 FUEL MODE=NCNE FUEL=NONE POWER SETTING 85 READING NO. 2105

| | | MICROPHONE | POSITION | | |
|--------------|-----|------------|----------|-----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 131. | 0. | 0. | 0. |
| 63 | 68. | 129. | 0. | 0. | 0. |
| 80 | 68. | 126. | 0. | 0. | C. |
| 100 | 68. | 121. | 0. | 0. | 0. |
| 125 | 68. | 121. | 0. | 0. | Ç. |
| 160 | 67. | 120. | 0. | 0. | 0. |
| 200 | 68. | 121. | 0. | 0. | 0. |
| 250 | 67. | 123. | 0. | 0. | 0. |
| 315 | 68. | 123. | 0. | 0. | 0. |
| 400 | 67. | 121. | 0. | 0. | 0. |
| 500 | 67. | 130. | 0. | 0. | 0. |
| 630 | 68. | 128. | 0. | 0. | 0. |
| 800 | 68. | 131. | C. | 0. | 0. |
| 1000 | 68. | 130. | 0. | 0 • | 0. |
| 1250 | 67. | 130. | 0. | 0. | 0. |
| 1600 | 67. | 131. | 0• | 0. | 0. |
| 2000 | 67. | 129. | 0. | 0. | 0. |
| 2500 | 67. | 128. | 0. | 0. | 0. |
| 3150 | 67. | 129. | 0. | 0. | 0. |
| 4000 | 68. | 129. | 0. | 0. | 0. |
| 5000 | 68. | 129. | 0. | 0. | 0. |
| 6300 | 67. | 132. | 0. | n. | 0. |
| 8000 | 67. | 134. | 0. | 0. | 0. |
| 10000 | 67. | 135. | 0• | 0. | 0. |
| 12500 | 68. | 137. | 0. | Λ. | 0. |
| 16000 | 6°- | 137. | 0. | 0. | 0. |
| 20000 | 68. | 136. | 0. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 134. | 0. | 0. | 0. |
| 125 | 72. | 125. | 0. | 0. | 0. |
| 250 | 72. | 127. | 0. | 0. | 0. |
| 500 | 72. | 132. | 0. | 0. | 0. |
| 1000 | 72. | 135. | 0. | 0. | 0. |
| 2000 | 72. | 134. | 0. | 0. | 0. |
| 4000 | 72. | 134. | 0. | 0. | n. |
| 8000 | 72. | 139. | 0, | n. | 0. |
| 16000 | 73. | 141. | 0. | 0. | 0. |
| | | | | | |

VG=1.15 FUEL MODE±NCNE FUEL=NONE POWER SETTING 85 READING NO. 2106

| | | MICROPHO | NE POSITION | | |
|--------------|------------|----------|-------------|----|----|
| 1/3 OCT FREQ | 1 | ? | 3 | 4 | 5 |
| 50 | 68. | 129. | 0. | 0. | 0. |
| 63 | 67. | 126. | 0. | 0. | 0. |
| 80 | 68. | 124. | 0. | 0. | 0. |
| 100 | 68. | 124. | 0. | 0. | n. |
| 1 25 | 67. | 124. | 0. | 0. | 0. |
| 160 | 68. | 124. | 0. | 0. | 0. |
| 200 | 67. | 125. | 0. | 0. | 0. |
| 250 | 68. | 125. | 0. | 0. | 0. |
| 315 | 67. | 123. | 0. | 0. | 0. |
| 400 | 67. | 121. | 0. | 0. | 0. |
| 500 | 67. | 126. | 0. | 0. | 0. |
| 630 | 68. | 126. | 0. | 0. | 0. |
| 800 | 68. | 125. | 0. | 0. | 0. |
| 1000 | 67. | 126. | 0. | 0. | 0. |
| 1250 | 67. | 127. | 0. | 0. | 0. |
| 1600 | 67. | 128. | 0. | 0. | 0. |
| 2000 | 67. | 131. | 0. | 0. | 0. |
| 2500 | 67. | 138. | 0. | 0. | 0. |
| 3150 | 68. | 134. | 0. | 0. | 0. |
| 4000 | 68. | 136. | 0. | 0. | 0. |
| 5000 | 67. | 136. | 0 - | 0. | 0. |
| 6300 | 67. | 133. | 0. | n. | n. |
| 8000 | 57. | 129. | 0. | 0. | 0. |
| 10000 | 68. | 133. | 0. | 0. | 0. |
| 12500 | 68. | 123. | 0. | 0. | 0. |
| 16000 | 68. | 120. | 0. | 0. | 0. |
| 20000 | 68. | 111. | 0. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 72. | 132. | 0. | 0. | 0. |
| 125 | 72. | 129. | 0. | 0. | 0. |
| 250 | 72. | 129. | 0. | n. | 0. |
| 500 | 72. | 130. | 0. | ö. | 0. |
| 1000 | 72. | 131. | 0. | 0. | 0. |
| 2000 | 72. | 139. | ő. | 0. | 0. |
| 4000 | 72. | 140. | 0. | 0. | 0. |
| 8000 | 72. | 137. | 0. | 0. | ő. |
| 16000 | 73. | 125. | 0. | 0. | 0. |

VG=1.20 FUEL MODE=NONE FUFL=NONE POWER SFTTING 85 READING NO. 2107

| | | MICROPHO | NE POSITION | | |
|--------------|-----|----------|-------------|----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 65. | 129. | 0. | 0. | 0. |
| 63 | 67. | 129. | 0. | 0. | 0. |
| 80 | 67. | 125. | 0. | 0. | 0. |
| 100 | 68. | 120. | 0. | 0. | 0. |
| 125 | 68. | 122. | 0. | 0. | 0. |
| 160 | 67. | 120. | 0. | 0. | 0. |
| 200 | 68. | 121. | 0. | 0. | 0. |
| 250 | 68. | 123. | 0. | 0. | 0. |
| 315 | 68. | 123. | n. | n. | 0. |
| 400 | 67. | 122. | 0. | 0. | n. |
| 500 | 67. | 128. | 0. | 0. | 0. |
| 630 | 68. | 127. | 0. | 0. | 0. |
| 800 | 68. | 132. | 0. | 0. | 0. |
| 1000 | 68. | 130. | 0. | 0. | 0. |
| 1250 | 67. | 130. | 0. | 0. | 0. |
| 1600 | 68• | 132. | 0. | 0. | 0. |
| 2000 | 67. | 130. | 0. | 0. | 0. |
| 2500 | 67. | 129. | 0. | 0. | 0. |
| 3150 | 67. | 130. | 0. | 0. | 0. |
| 4000 | 68. | 128. | 0. | 0. | 0. |
| 5000 | 67• | 128. | 0. | 0. | c. |
| 6300 | 67. | 132. | 0. | 0. | 0. |
| 8000 | 68. | 134. | 0. | 0. | 0. |
| 10000 | 67. | 135. | 0• | 0. | 0. |
| 12500 | 67. | 136. | v. | 0. | ე. |
| 16000 | 68. | 137. | 0• | 0. | n. |
| 20000 | 68. | 136. | 0. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 133. | 0. | 0. | 0. |
| 125 | 72. | 126. | 0. | Ö. | 0. |
| 250 | 73. | 127. | 0. | 0. | 0. |
| 500 | 72. | 131. | 0. | 0. | 0. |
| 1000 | 72. | 136. | 0. | 0. | n. |
| 2000 | 72. | 135. | Ŏ. | 0. | 0. |
| 4000 | 72. | 134. | 0. | 0. | 0. |
| 8000 | 72. | 139. | o. | 0. | 0. |
| 16000 | 72. | 141. | 0. | 0. | 0. |
| | | - | | | |

VG=1.25 FUFL MODE=NONE FUFL=NONE POWER SETTING 85 READING NO. 2108

| | | MICROPHONE | POSITION | | |
|--------------|-----|------------|----------|----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 68. | 127. | 0. | 0. | 0. |
| 63 | 67. | 126. | 0. | 0. | 0. |
| 80 | 68. | 125. | 0. | 0. | 0. |
| 100 | 68. | 124. | 0. | 0. | 0. |
| 125 | 67. | 125. | 0. | 0. | 0. |
| 140 | 67. | 125. | 0. | 0. | 0. |
| 200 | 67. | 125. | 0. | 0. | 0. |
| 250 | 68. | 125. | 0. | 0. | 0. |
| 315 | 67. | 123. | 0. | 0. | 0. |
| 400 | 67. | 122. | 0. | 0. | 0. |
| 500 | 68. | 127. | 0. | 0. | 0. |
| 630 | 68. | 125. | 0. | 0. | 0. |
| 800 | 68. | 125. | 0. | 0. | 0. |
| 1000 | 68. | 126. | 0. | 0. | 0. |
| 1250 | 68. | 126. | 0. | 0. | 0. |
| 1600 | 67. | 129. | 0. | 0. | 0. |
| 2000 | 67. | 130. | 0. | 0. | 0. |
| 2500 | 67. | 138. | 0. | 0. | 0. |
| 3150 | 68. | 133. | 0. | 0. | n. |
| 4000 | 68. | 135. | 0. | 0. | 0. |
| 5000 | 67. | 135. | 0. | 0. | 0. |
| 63.00 | 67. | 132. | 0. | 0. | 0. |
| 8000 | 67. | 128. | 0. | 0. | 0. |
| 10000 | 68. | 133. | 0. | 0. | 0. |
| 12500 | 67. | 123. | 0. | 0. | 0. |
| 16000 | 67. | 121. | 0. | 0. | 0. |
| 20000 | 68. | 111. | 0. | 0. | 0. |
| CCTAVE FRED | | | | | |
| 63 | 72. | 131. | 0. | 0. | 0. |
| 125 | 72. | 129. | 0. | 0. | 0. |
| 250 | 72. | 129. | 0. | 0. | 0. |
| 500 | 72. | 130. | 0. | 0. | 0. |
| 1000 | 73. | 130. | 0. | 0. | o. |
| 2000 | 72. | 139. | n. | ñ. | o. |
| 4000 | 72. | 139. | 0. | 0. | o. |
| 8000 | 72. | 136. | 0. | 0. | 0. |
| 16000 | 72. | 125. | 0. | 0. | 0. |

VG=.95 FUEL MODE=AA FUFL=STD POWER SFTTING 85 READING NO. 2109

| | | MICROPHONE | POSITION | | |
|--------------|-----|------------|----------|----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 129. | 0. | 0. | n. |
| 67 | 68. | 129. | 0. | 0. | 0. |
| 80 | 67. | 126. | 0. | 0. | n. |
| 100 | 67. | 120. | 0. | 0. | 0. |
| 125 | 67. | 121. | 0. | 0. | 0. |
| 160 | 68. | 120. | 0. | 0. | 0. |
| 200 | 68. | 121. | 0. | 0. | 0. |
| 250 | 67. | 123. | 0. | 0. | 0. |
| 315 | 68. | 123. | 0. | 0. | 0. |
| 400 | 67. | 122. | 0. | 0. | 0. |
| 500 | 67. | 130. | 0. | 0. | 0. |
| 630 | 68. | 127. | 0. | 0. | 0. |
| 800 | 68- | 133. | 0. | 0. | 0. |
| 1000 | 68. | 130. | 0. | 0. | 0. |
| 1250 | 67. | 130. | 0. | 0. | 0. |
| 1600 | 67. | 131. | 0. | 0. | 0. |
| 2000 | 67. | 130. | 0. | 0. | C. |
| 2500 | 67. | 128. | 0. | 0. | 0. |
| 3150 | 68. | 129. | 0. | 0. | 0. |
| 4000 | 68. | 128. | 0. | 0. | 0. |
| 5000 | 67. | 129. | 0. | 0. | 0. |
| 6300 | 68. | 133. | 0. | 0. | 0. |
| 8000 | 68. | 134. | 0. | 0. | 0. |
| 10000 | 68. | 135. | 0. | 0. | 0. |
| 12500 | 68. | 137. | 0. | 0. | 0. |
| 16000 | 68. | 138. | 0. | 0. | n. |
| 20000 | 68. | 136. | 0. | 0. | C. |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 133. | 0. | 0. | 0. |
| 125 | 72. | 125. | Ĉ. | 0. | 0. |
| 250 | 72. | 127. | 0. | 0. | 0. |
| 500 | 72. | 132. | 0. | 0. | 0. |
| 1000 | 72. | 136. | 0. | 0. | 0. |
| 2000 | 72. | 135. | 0. | 0. | 0. |
| 4000 | 72. | 133. | 0. | 0. | 0. |
| 8000 | 73. | 139. | 0. | 0. | 0. |
| 16000 | 73. | 142. | 0. | 0. | 0. |
| | | | | | |

VG=1.10 FUEL MODE=AA FUEL=STD POWER SETTING 85 READING NO. 2110

| | | MICROPHONE | POSITION | | |
|--------------|-----|------------|------------|----|------------|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 67. | 129. | 0. | 0. | ŋ . |
| 63 | 67. | 128. | 0. | 0. | n. |
| ٩0 | 67. | 125. | 0. | 0. | 0. |
| 100 | 68. | 124. | 0. | 0. | 0. |
| 125 | 68. | 125. | ാ. | 0. | 0. |
| 160 | 67. | 125. |) . | 0. | 0. |
| 200 | 68. | 126. | 0. | 0. | 0. |
| 250 | 68. | 124. | 0. | 0. | 0. |
| 315 | 68. | 123. | 0. | 0. | 0. |
| 400 | 67. | 122. | 0. | 0. | 0. |
| 500 | 67. | 127. | 0. | 0. | 0. |
| 630 | 68. | 176. | 0. | 0. | 0. |
| 800 | 68• | 125. | 0. | 0. | 0. |
| 1000 | 67. | 126. | 0. | 0. | 0. |
| 1250 | 68. | 127. | n. | 0. | 0. |
| 1600 | 67. | 128. | 0. | 0. | 0. |
| 2000 | 67. | 130. | 0. | 0. | 0. |
| 2500 A | 68. | 138. | 0. | 0. | 0. |
| 71.70 Year | 67. | 133. | 0. | 0. | 0. |
| 4000 | 68. | 135. | 0. | 0. | 0. |
| 5000 | 68. | 135. | 0. | 0. | 0. |
| 6300 | 68. | 133. | 0. | 0. | 0. |
| 8000 | 67. | 129. | 0. | 0. | 0. |
| 1 0000 | 68. | 132. | 0. | 0. | 0. |
| 12500 | 68. | 123. | 0. | 0. | 0. |
| 16000 | 68. | 118. | 0. | 0. | 0. |
| 20000 | 68. | 112. | 0. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 72. | 132. | 0. | 0. | 0. |
| 125 | 72. | 129. | 0. | n. | 0. |
| 250 | 73. | 129. | 0. | 0. | 0. |
| 500 | 72. | 130. | 0. | 0. | n. |
| 1000 | 72. | 131. | 0. | 0. | 0. |
| 2000 | 72. | 139. | 0. | 0. | n. |
| 4000 | 72. | 139. | 0. | 0. | 0. |
| 8000 | 72. | 136. | 0. | 0. | 0. |
| 16000 | 73. | 124. | 0. | 0. | 0. |

VG=1.25 FUEL MODE=AA FUEL=STD POWEP SETTING 85 READING NO. 2111

| | | MICROPHONE | POSITION | | |
|--------------|-----|------------|----------|----|----|
| 1/3 CCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 130. | 0. | 0. | 0. |
| 63 | 68. | 129. | 0. | 0. | 0. |
| RO | 68. | 126. | 0. | 0. | 0. |
| 100 | 68. | 121. | c. | 0. | 0. |
| 125 | 68. | 122. | 0. | 0. | 0. |
| 160 | 68. | 120. | 0. | 0. | 0. |
| 200 | 68. | 121. | 0• | 0. | 0. |
| 250 | 67. | 123. | 0. | 0. | 0. |
| 315 | 67. | 123. | 0. | 0. | 0. |
| 400 | 68. | 123. | 0. | 0. | 0. |
| 500 | 67. | 130. | 0. | 0. | 0. |
| 630 | 69. | 127. | 0. | 0• | ٥. |
| 800 | 58. | 133. | 0. | 0. | 0. |
| 1000 | 68. | 132. | 0. | 0. | 0. |
| 1250 | 67. | 130. | 0. | 0. | 0. |
| 1600 | 68. | 132. | 0. | 0. | 0. |
| 2000 | 67. | 131. | 0. | 0. | 0. |
| 2500 | 67. | 128. | 0. | 0. | 0. |
| 3150 | 67. | 129. | 0. | 0. | 0. |
| 4000 | 68. | 128. | 0. | 0. | 0. |
| 5000 | 67. | 128. | 0. | 0. | 0. |
| 6300 | 68. | 132. | 0. | 0. | 0. |
| 8000 | 67. | 134. | 0. | 0. | 0. |
| 10000 | 67. | 135. | 0. | 0. | 0. |
| 1 2500 | 67. | 136. | 0. | 0. | 0. |
| 16000 | 67. | 137. | 0. | 0. | 0. |
| 20000 | 68. | 135. | 0. | 0. | 0. |
| CCTAVE FREQ | | | | | |
| 63 | 73. | 133. | 0. | 0. | 0. |
| 125 | 73. | 126. | 0. | 0. | 0. |
| 250 | 72. | 127. | C. | 0. | 0. |
| 500 | 73. | 132. | 0. | n. | n. |
| 1000 | 72. | 137. | 0. | 0. | 0. |
| 2000 | 72. | 135. | 0. | 0. | 0. |
| 4000 | 72. | 133. | 0. | 0. | 0. |
| 8000 | 72. | 139. | 0. | 0. | 0. |
| 16000 | 72. | 141. | 0. | O. | 0. |

VG=1.40 FUEL MODE=AA FUEL=STD PCWER SETTING 85 PEADING NO. 2112

Application and the rate of the publication of the state
| | | MICROPHONE | POSITION | | |
|-------------|-----|------------|----------|-----|----|
| 1/3 OCT FRE | 0 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 130. | 0. | 0 • | 0. |
| 63 | 67. | 129. | 0. | 0. | 0. |
| 80 | 68. | 127. | 0. | 0. | 0. |
| 100 | 68. | 124. | 0. | 0. | 0. |
| 1 25 | 68. | 126. | 0. | n. | 0. |
| 160 | 68. | 126. | 0. | 0. | 0. |
| 200 | 68. | 126. | 0. | 0. | 0. |
| 250 | 67. | 125. | 0. | 0. | 0. |
| 315 | 67. | 123. | 0. | 0. | n. |
| 400 | 67. | 122. | 0. | 0. | 0. |
| 500 | 67. | 125. | 0. | 0. | 0. |
| 630 | 68. | 126. | 0. | 0. | 0. |
| 800 | 68. | 125. | 0. | 0. | C. |
| 1000 | 68. | 125. | 0. | 0. | 9. |
| 1250 | 67. | 127. | C. | 0. | 0. |
| 1600 | 67. | 129. | 0. | 0. | 0. |
| 2000 | 67. | 131. | 0. | 0. | 0. |
| 2500 | 67. | 138. | 0. | n. | 0. |
| 3150 | 67. | 133. | 0. | 0. | 0. |
| 4000 | 68. | 135. | 0. | 0. | 0. |
| 5000 | 67. | 136. | 0. | 0. | n. |
| 6300 | 68. | 132. | 0. | 0. | n. |
| 80.00 | 67. | 129. | 0. | 0. | 0. |
| 10000 | 67. | 133. | 0. | 0. | n. |
| 12500 | 68. | 123. | 0. | 0. | 0. |
| 16000 | 68. | 118. | 0. | 0. | 0. |
| 20000 | 68. | 111- | 0. | 0. | 0. |
| CCTAVE FRE | ^ | | | | |
| 63 | 73. | 134. | 0. | • | • |
| 125 | 73. | | | 0. | 0. |
| 250 | 72. | 130. | 0. | 0. | 0. |
| 500 500 | 72. | 130. | 0. | 0. | 0. |
| 1000 | 72. | 129. | 0. | 0. | 0. |
| 2000 | 72. | 131. | 0. | 0. | 0. |
| 4000 | 72. | 139. | 0. | 0. | 0. |
| 8000 | | 140. | 0. | 0. | 0. |
| | 72. | 136. | 0. | 0. | 0. |
| 16000 | 73. | 124. | 0. | 0. | 0. |

VG=.70 FUEL MODE=WE FUFL=UL POWER SETTING 70 READING NO. 2152

| | | MICROPHONE | POSITION | | |
|--------------|------|------------|----------|------------|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 123. | 0. | 0. | ń. |
| 63 | 68. | 123. | 0. | 0. | 0. |
| 80 | 68. | 119. | 0. | 0. | n. |
| 100 | 67. | 118. | 0. | 0. | 0. |
| 125 | 67. | 120. | 0. | 0. | 0. |
| 160 | 68. | 121. | 0. | 0. | 0. |
| 200 | 68. | 120. | 0. | 0. | 0. |
| 250 | 67. | 120. | 0. | 0. | 0. |
| 315 | 68. | 118. | 0. | 0. | 0. |
| 400 | 67. | 117. | 0. | 0. | 0. |
| 500 | 68. | 120. | 0. | 0. | 0. |
| 630 | 68. | 121. | 0. | 0. | 0. |
| 800 | 68. | 120. | 0. | 0. | 0. |
| 1000 | 68. | 120. | 0. | 0. | 0. |
| 1250 | 68. | 122. | n. | 0. | 0. |
| 1600 | 68. | 120. | 0. | 0. | 0. |
| 2000 | 67. | 119. | 0. | 0. | 0. |
| 2500 | 67. | 120. | 0. | 0. | 0. |
| 3150 | 6 A. | 122. | 0. | 0. | 0. |
| 4000 | 68. | 127. | 17. | 0. | 0. |
| 5000 | 67. | 124. | 0. | 0. | 0. |
| 6300 | 68. | 124. | 0. | 0. | 0. |
| 8000 | 67. | 122. | 0. | 0. | 0. |
| 10000 | 68. | 124. | 0. | 0. | 0. |
| 12500 | 68. | 115. | 0. | 0. | 0. |
| 16000 | 67. | 112. | 0. | 0. | 0. |
| 20000 | 68. | 108. | 0. | 9. | 0. |
| | | | | | |
| OCTAVE FRED | | | | | |
| 63 | 73. | 127. | 0. | Ο. | 0. |
| 1.25 | 77. | 125. | 0. | 0. | 0. |
| 250 | 72. | 124. | 0. | 0. | 0. |
| 500 | 77. | 124. | 0. | 0. | 0. |
| 1000 | 73. | 126. | O. | 0. | 0. |
| 2000 | 72. | 124. | 0. | C • | 0. |
| 4000 | 72. | 130. | 0. | 0. | 0. |
| 8000 | 72. | 128. | 0. | 0. | 0. |
| 16000 | 72. | 117. | 0. | Ú. | 0. |

VG=.85 FUEL MODE=WF FUEL=UL POWER SETTING 70 READING NO. 2153

| | | MICROPHON | E POSITION | | |
|--------------|-----|-----------|------------|----|----|
| 1/3 CCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 68. | 119. | 0. | 0. | 0. |
| 63 | 68. | 116. | 0. | 0. | 0. |
| 90 | 67. | 120. | 0. | 0. | n. |
| 100 | 68. | 119. | 0. | 0. | 0. |
| 125 | 68. | 119. | 0. | 0. | 0. |
| 160 | 67. | 119. | 0. | 0. | 0. |
| 200 | 69. | 113. | 0. | 0. | 0. |
| 250 | 68. | 111. | 0. | 0. | 0. |
| 315 | 6R. | 110. | 0. | 0. | 0. |
| 400 | 67. | 108. | 0. | 0. | 0. |
| 500 | 67. | 110. | 0. | 0• | 0. |
| 630 | 68. | 114. | 0. | 0. | 0. |
| 800 | 67. | 114. | n. | 0. | 0. |
| 1000 | 6R. | 115. | 0. | 0. | 0. |
| 1250 | 68. | 113. | 0. | 0. | 0. |
| 1600 | 67. | 116. | 7. | 0. | 0. |
| 2000 | 67. | 118. | 0. | 0. | C. |
| 2500 | 67. | 115. | 0. | 0. | 0. |
| 3150 | 68. | 118. | 0. | 0. | 0. |
| 4000 | 68. | 118. | 0. | 0. | 0. |
| 5000 | 67. | 117. | 0. | 0. | 0. |
| 6300 | 67. | 118. | 0. | 0. | 0. |
| 8000 | 67. | 120. | 0. | 0. | 0. |
| 10000 | 67. | 121. | 0. | 0. | 0. |
| 12500 | 67. | 123. | 0. | 0. | 0. |
| 16000 | 68. | 124. | 0. | 0. | 0. |
| 20000 | 68. | 122. | 0. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 72. | 123. | 0. | 0. | 0. |
| 125 | 72. | 123. | 0. | 0. | 0. |
| 250 | 73. | 116. | 0. | 0. | 0. |
| 500 | 72. | 116. | 0. | 0. | 0. |
| 1000 | 72. | 119. | 0. | 0. | 0. |
| 2000 | 72. | 121. | 0. | 0. | n. |
| 4000 | 72. | 122. | 0. | 0. | 0. |
| 8000 | 72. | 125. | 0. | 0. | 0. |
| 16000 | 72. | 128. | 0. | 0. | 0. |

VG=.95 FUFL MODE=WF FUEL=UL PCWEP SETTING 70 READING NO. 2154

| | | MICPOPHENI | F POSITION | V | |
|--------------|------|------------|------------|----|----|
| 1/3 OCT FREQ | 1 | ? | 3 | 4 | 5 |
| 50 | 68. | 123. | 0. | 0. | n. |
| 63 | 68. | 121. | 0. | 0. | 0. |
| 80 | 68. | 118, | 0. | 0. | 0. |
| 100 | 68. | 119, | n. | 0. | 0. |
| 125 | 67. | 119. | 0. | 0. | 0. |
| 160 | 68. | 122. | 0. | 0. | 0. |
| 200 | 68. | 121. | 0. | 0. | 0. |
| 250 | 68. | 118. | 0. | 0. | 0. |
| 315 | 68. | 118. | 0. | 0. | 0. |
| 400 | 67. | 117. | 0. | 0. | 0. |
| 500 | 67. | 120. | 0. | 0. | 0. |
| 630 | 68. | 121. | 0. | 0. | 0. |
| 800 | 6 R. | 119. | 0. | 0. | 0. |
| 1000 | 67. | 120. | 0. | 0. | 0. |
| 1250 | 68. | 122. | 0. | 0. | 0. |
| 1600 | 67. | 120. | 0. | 0. | 0. |
| 2000 | 67. | 120. | 0. | 0. | 0. |
| 2500 | 67. | 120. | 0. | 0. | 0. |
| 3150 | 67. | 122. | 0. | 0. | O. |
| 4000 | 68. | 127. | 0. | 0. | 0. |
| 5000 | 67. | 125. | 0. | 0. | 0. |
| 6300 | 67. | 125. | 0. | 0. | 0. |
| 8000 | 67. | 122. | 0. | 0. | 0. |
| 10000 | 6 R. | 123. | 0. | 0. | 0. |
| 12500 | 67. | 116. | 0. | 0. | 0. |
| 16000 | 68. | 113. | 0. | 0. | 0. |
| 20000 | 67. | 108. | 0. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 126. | 0. | 0. | 0. |
| 125 | 72. | 125. | 0. | 0. | 0. |
| 250 | 73. | 124. | 0. | 0. | 0. |
| 500 | 72. | 124. | 0. | 0. | 0. |
| 1000 | 72. | 125. | 0. | 0. | 0. |
| 2000 | 72. | 125. | 0. | 0. | 0. |
| 4000 | 72. | 130. | 0. | 0. | 0. |
| 8000 | 72. | 128. | 0. | 0. | 0. |
| 16000 | 72. | 118. | 0. | 0. | 0. |

VG=.70 FUFL MODE=AA FUFL=I/L POWER SETTING 70 READING NO. 2161

| | | MICROPHON | E POSTTICN | | |
|--------------|-------------|-----------|------------|-----|----|
| 1/3 OCT FREQ | 1 | ? | 3 | 4 | 5 |
| 50 | 69. | 119. | n. | 0. | 0. |
| 63 | 69 . | 118. | 0. | 0. | 0. |
| 80 | 68. | 120. | 0. | 0. | 0. |
| 100 | 68. | 120. | 0. | 0. | 0. |
| 125 | 67. | 119. | 0. | 0. | 0. |
| 160 | 68. | 119. | 0. | 0. | 0. |
| 200 | 68. | 113. | 0. | 0. | 0. |
| 250 | 68. | 112. | 0. | 0. | 0. |
| 315 | 68. | 111. | 0. | 0. | 0. |
| 400 | 67. | 108. | 0. | 0 • | 0. |
| 500 | 67. | 110. | 0. | 0. | 0. |
| 630 | 68. | 115. | 0. | 0. | 0. |
| 800 | 68. | 114. | 0. | 0. | 0. |
| 1000 | 68. | 115. | 0. | 0. | 0. |
| 1250 | 67. | 114. | 0. | 0. | 0. |
| 1600 | 67. | 116. | 0. | 0. | 0. |
| 2000 | 67. | 118. | 0. | 0. | 0. |
| 2500 | 67. | 115. | 0. | 0. | 0. |
| 3150 | 68. | 118. | 0. | 0. | 0. |
| 4000 | 68. | 118. | 0. | 0. | 0. |
| 5000 | 67. | 118. | 0. | 0. | n. |
| 6300 | 67. | 119. | 0. | 0. | 0. |
| 8000 | 67. | 121. | 0. | 0. | 0. |
| 10000 | 67. | 121. | 0. | 0. | 0. |
| 12500 | 67. | 123. | 0. | 0. | 0. |
| 16000 | 68. | 125. | 0. | 0. | 0. |
| 20000 | 68. | 123. | 0. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 124. | 0. | 0. | 0. |
| 125 | 72. | 124. | 0. | 0. | 0. |
| 250 | 73. | 117. | 0. | 0. | 0. |
| 500 | 72. | 117. | 0. | 0. | 0. |
| 1000 | 72. | 119. | 0. | 0. | 0. |
| 2000 | 72. | 121. | 0. | 0. | 0. |
| 4000 | 72. | 123. | 0. | 0. | 0. |
| P000 | 72. | 125. | 0. | 0. | 0. |
| 16000 | 72. | 129. | . | 0. | 0. |

VG=.95 FUEL MODE=AA FUFL=UL POWER SFTTING 70 READING NO. 2163

• 1

| | | MICROPHO | NE POSITION |) | |
|--------------|-----|----------|-------------|----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 68. | 135. | 0. | 0. | 0. |
| 63 | 68. | 135. | 0. | 0. | 0. |
| 80 | 68. | 132. | 0. | 0. | 0. |
| 100 | 69. | 131. | 0. | 0. | 0. |
| 125 | 68. | 133. | 0. | 0. | 0. |
| 160 | 68. | 132. | 0. | 0. | 0. |
| 200 | 67. | 130. | 0. | 0. | 0. |
| 250 | 57. | 129. | 0. | 0. | 0. |
| 315 | 68. | 128. | 0. | 0. | 0. |
| 400 | 68. | 127. | 0. | 0. | 0• |
| 500 | 67. | 129. | 0. | 0. | 0. |
| 630 | 68. | 130. | 0. | 0. | 0. |
| 800 | 68. | 129. | 0. | 0. | 0. |
| 1000 | 68. | 129. | 0. | 0. | 0. |
| 1250 | 68. | 132. | 0. | 0. | 0. |
| 1600 | 67. | 130. | 0. | 0. | n. |
| 2000 | 67. | 129. | 0. | 0. | 0. |
| 2500 | 68. | 131. | 0. | 0. | 0. |
| 3150 | 68. | 133. | 0. | 0. | 0. |
| 4000 | 68. | . 137. | 0. | 0. | 0. |
| 5000 | 67. | 136. | 0. | 0. | 0. |
| 6300 | 68. | 136. | 0. | 0. | 0. |
| 8000 | 67. | 132. | 0. | 0. | 0. |
| 10000 | 68. | 133. | 0. | 0. | 0. |
| 1 2500 | 68. | 126. | 0. | 0. | 0. |
| 16000 | 67. | 123. | o. | 0. | 0. |
| 20000 | 68. | 119. | 0. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 139. | 0. | 0. | 0. |
| 125 | 73. | 137. | 0. | 0. | 0. |
| 250 | 72. | 134. | 0. | 0. | 0. |
| 500 | 72. | 134. | 0. | 0. | 0. |
| 1000 | 73. | 135. | 0. | 0. | 0. |
| 2000 | 72. | 135. | 0. | 0. | 0. |
| 4000 | 72. | 140. | 0. | 0. | 0. |
| 8000 | 72. | 139. | 0. | 0. | 0. |
| 16000 | 72. | 128. | 0. | 0. | 0. |

| | | MICROPHO | NE POSITION | | |
|--------------|-----|----------|-------------|----|----|
| 1/3 OCT FREO | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 130. | 0. | 0. | 0. |
| 63 | 67. | 127. | 0. | 0. | 0. |
| 80 | 68. | 130. | 0. | 0. | 0. |
| 100 | 68. | 130. | 0. | 0. | 0. |
| 125 | 67. | 129. | 0. | 0. | 0. |
| 160 | 68. | 129. | 0. | 0. | 0. |
| 200 | 68. | 122. | 0. | 0. | 0. |
| 250 | 68. | 122. | 0. | 0. | 0. |
| 315 | 68. | 121. | 0. | 0. | 0. |
| 400 | 67. | 118. | 0. | 0. | 0. |
| 500 | 67. | 120. | 0. | 0. | 0. |
| 630 | 68. | 124. | C. | 0. | 0. |
| 800 | 68. | 124. | 0. | 0. | 0. |
| 1000 | 68. | 124. | 0. | 0. | 0. |
| 1250 | 68. | 123. | 0. | 0. | 0. |
| 1600 | 68. | 126. | 0• | 0. | 0. |
| 2000 | 67. | 128. | 0. | 0. | 0. |
| 2500 | 67. | 126. | 0. | 0. | 0. |
| 3150 | 67. | 129. | 0. | 0. | 0. |
| 4000 | 68• | 128. | 0. | 0. | 0. |
| 5000 | 68. | 128. | 0. | 0. | 0. |
| 6300 | 68. | 129. | 0. | 0. | 0. |
| 8000 | 67. | 130. | 0. | 0. | 0. |
| 10000 | 68. | 131. | C. | 0. | 0. |
| 12500 | 67. | 133. | 0• | 0. | 0. |
| 16000 | 68. | 135. | 0. | 0. | 0. |
| 20000 | 68. | 133. | 0. | 0. | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 134. | 0. | 0. | 0. |
| 125 | 72. | 134. | 0. | 0. | 0. |
| 250 | 73. | 126. | 0. | 0. | 0. |
| 500 | 72. | 126. | 0. | 0. | 0. |
| 1000 | 73. | 128. | 0. | 0. | 0. |
| 2000 | 72. | 132. | 0. | 0. | 0. |
| 4000 | 72. | 133. | n. | 0. | 0. |
| 8000 | 72. | 135. | 0. | 0. | 0. |
| 16000 | 72. | 139. | 0. | 0. | 0. |

VG=.70 FUEL MODE=AA FUEL=UC POWFR SETTING 70 READING NO. 2168

Parada sha shake the fact that

| | | MICROPHONE | POSITION | | |
|--------------|-------------|------------|----------|----|----|
| 1/3 OCT FREQ | 1 | 2 | 3 | 4 | 5 |
| 50 | 69. | 116. | 0. | 0. | 0. |
| 63 | 67. | 110. | 0. | 0. | 0. |
| 80 | 67. | 109. | 0. | 0. | 0. |
| 100 | 68. | 108. | 0. | 0. | 0. |
| 125 | 68. | 106. | 0. | 0. | 0. |
| 160 | 68. | 107. | 0. | 0• | 0. |
| ?00 | 68. | 107. | 0. | 0. | n. |
| 250 | 68. | 111. | 0. | 0. | 0. |
| 315 | 68. | 110. | 0. | 0. | 0. |
| 400 | 67. | 108. | 0. | 0. | 0. |
| 500 | 67. | 110. | 0. | 0. | 0. |
| 630 | 68. | 114. | 0. | 0. | 0. |
| 800 | 68. | 115. | 0. | 0. | 0. |
| 1000 | 67. | 113. | 0. | 0. | 0. |
| 1250 | 68. | 112. | 0. | 0. | 0. |
| 1600 | 67. | 113. | 0. | 0. | 0. |
| 2000 | 67. | 117. | 0. | 0. | 0. |
| 2500 | 67. | 115. | 0. | 0. | 0. |
| 3150 | 67. | 117. | 0. | 0. | 0. |
| 4000 | 68. | 118. | 0. | 0. | 0. |
| 5000 | 67. | 117. | 0. | 0. | 0. |
| 6300 | 67. | 119. | 0. | 0. | 0. |
| 8000 | 67. | 121. | 0. | 0. | 0. |
| 10000 | 67. | 122. | 0. | 0. | C. |
| 1 2500 | 68 . | 124. | 0. | 0. | 0. |
| 16000 | 68. | 125. | 0. | 0. | 0. |
| 20000 | 6R. | 123. | 0. | 0• | 0. |
| OCTAVE FREQ | | | | | |
| 63 | 73. | 118. | 0. | 0. | 0. |
| 125 | 73. | 112. | 0. | 0. | 0. |
| 250 | 73. | 114. | 0. | 0. | 0. |
| 500 | 72. | 116. | 0. | 0. | n. |
| 1000 | 72. | 118. | 0. | 0. | 0. |
| 2000 | 72. | 120. | 0. | 0. | 0. |
| 4000 | 72. | 122. | 0. | 0. | 0. |
| 8000 | 72. | 126. | 0. | 0. | 0. |
| 16000 | 73. | 129. | 0. | 0. | 0. |